

PHOTOMETRIC RESULT

Name :			
File :	01 MXLK-80.IES	Length :	0.000 m
Report No. :	20170518	Width :	0.000 m
Catalog No. :		Height :	0.000 m
Lamp Shape :	Point	Operator :	MIN
# of Lamp :	1		
Lum Flux :	9282.36 lm		
Date :	2017-05-18		
Comments :			

Information

Description :

[TEST] MXLK-80
 [DATE] 2017.05.18
 [MANUFAC] (주)크로스텍
 [LUMINAIRE]
 Total Luminous Flux : 9282.4 lm
 Luminous Efficiency : 117.66 lm/W
 - Avg. Voltage = 219.72(V)
 - Avg. Current = 360.91(mA)
 - Avg. Wattage = 78.89(W)
 - Avg. PF = 0.9948
 - Avg. Frequency = 60.0015(Hz)

Luminaire Test Details :

Photometric Type : Type C
 Number of Lamps : 1
 Lumens per Lamp : 9282.36
 Input Watt : 78.89

Luminous Dimension :

Width : 0.000 m
 Length : 0.000 m
 Height : 0.000 m
 Shape : Point



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Flux Data [1/2]

Elevation	Cone	Lumens	Cumulative	Lamp %	Luminaire %
0.0°	0.0° - 1.3°	4.7	4.7	0.1	0.1
2.5°	1.3° - 3.8°	37.3	41.9	0.5	0.5
5.0°	3.8° - 6.3°	74.3	116.2	1.3	1.3
7.5°	6.3° - 8.8°	110.8	227.0	2.4	2.4
10.0°	8.8° - 11.3°	146.5	373.5	4.0	4.0
12.5°	11.3° - 13.8°	181.2	554.6	6.0	6.0
15.0°	13.8° - 16.3°	214.5	769.1	8.3	8.3
17.5°	16.3° - 18.8°	246.3	1015.4	10.9	10.9
20.0°	18.8° - 21.3°	276.2	1291.6	13.9	13.9
22.5°	21.3° - 23.8°	304.0	1595.6	17.2	17.2
25.0°	23.8° - 26.3°	329.6	1925.2	20.7	20.7
27.5°	26.3° - 28.8°	352.7	2277.8	24.5	24.5
30.0°	28.8° - 31.3°	372.9	2650.8	28.6	28.5
32.5°	31.3° - 33.8°	390.4	3041.2	32.8	32.8
35.0°	33.8° - 36.3°	404.7	3445.9	37.1	37.1
37.5°	36.3° - 38.8°	415.8	3861.7	41.6	41.6
40.0°	38.8° - 41.3°	423.6	4285.3	46.2	46.2
42.5°	41.3° - 43.8°	427.9	4713.2	50.8	50.8
45.0°	43.8° - 46.3°	428.6	5141.7	55.4	55.4
47.5°	46.3° - 48.8°	425.6	5567.3	60.0	60.0
50.0°	48.8° - 51.3°	418.9	5986.2	64.5	64.5
52.5°	51.3° - 53.8°	408.7	6394.9	68.9	68.9
55.0°	53.8° - 56.3°	394.7	6789.6	73.1	73.1
57.5°	56.3° - 58.8°	377.1	7166.8	77.2	77.2
60.0°	58.8° - 61.3°	356.0	7522.8	81.0	81.0
62.5°	61.3° - 63.8°	331.6	7854.4	84.6	84.6
65.0°	63.8° - 66.3°	304.1	8158.6	87.9	87.9
67.5°	66.3° - 68.8°	273.8	8432.4	90.8	90.8
70.0°	68.8° - 71.3°	241.2	8673.6	93.4	93.4
72.5°	71.3° - 73.8°	206.3	8879.9	95.7	95.6
75.0°	73.8° - 76.3°	162.9	9042.7	97.4	97.4
77.5°	76.3° - 78.8°	113.7	9156.4	98.6	98.6
80.0°	78.8° - 81.3°	73.1	9229.5	99.4	99.4
82.5°	81.3° - 83.8°	36.7	9266.2	99.8	99.8

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Flux Data [2/2]

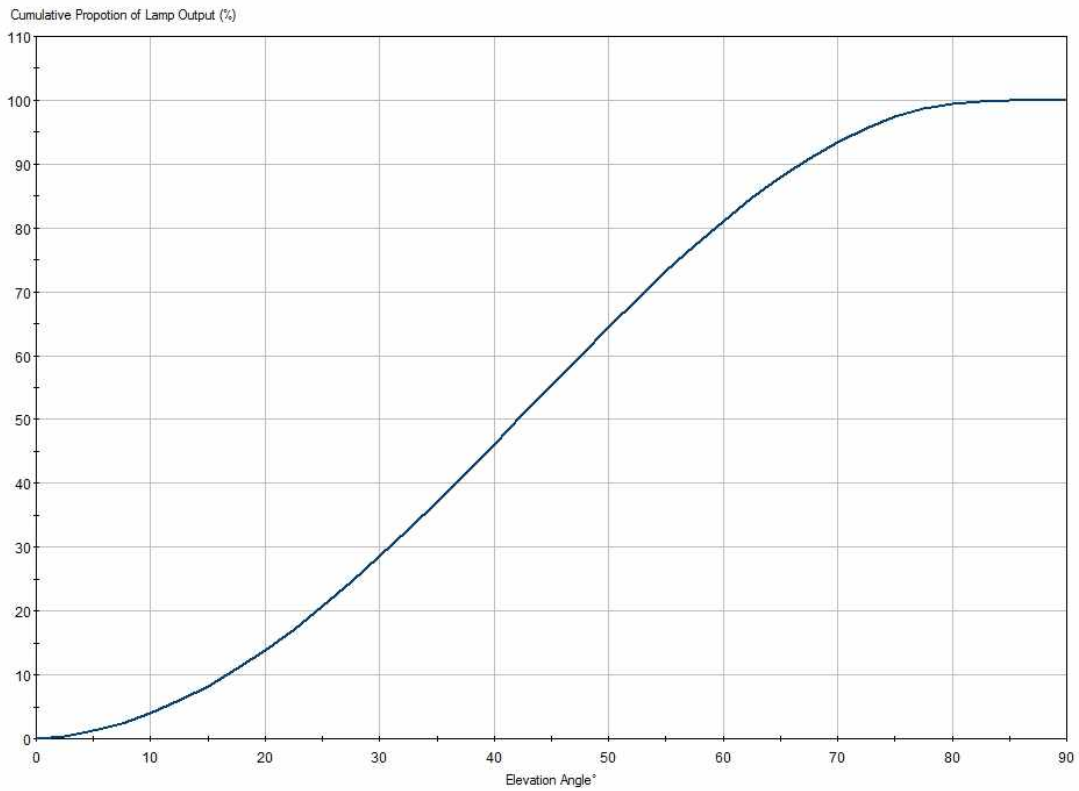
Elevation	Cone	Lumens	Cumulative	Lamp %	Luminaire %
85.0°	83.8° - 86.3°	11.8	9277.9	100.0	99.9
87.5°	86.3° - 88.8°	5.6	9283.5	100.0	100.0
90.0°	88.8° - 90.0°	1.7	9285.3	100.0	100.0

Light Output Ratio Luminaire(LORL) = 100.0%
 DLOR = 100.0% ULOR = 0.0%

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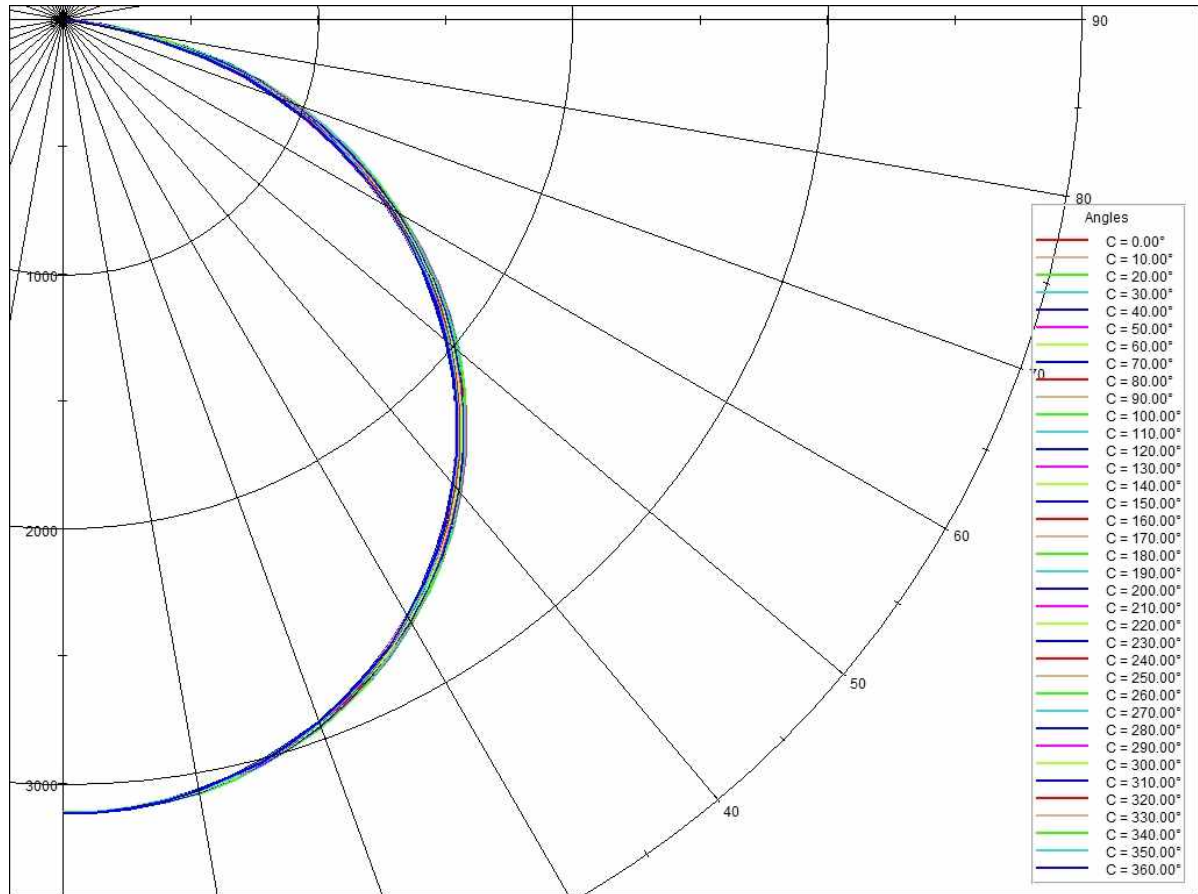
Flux Diagram



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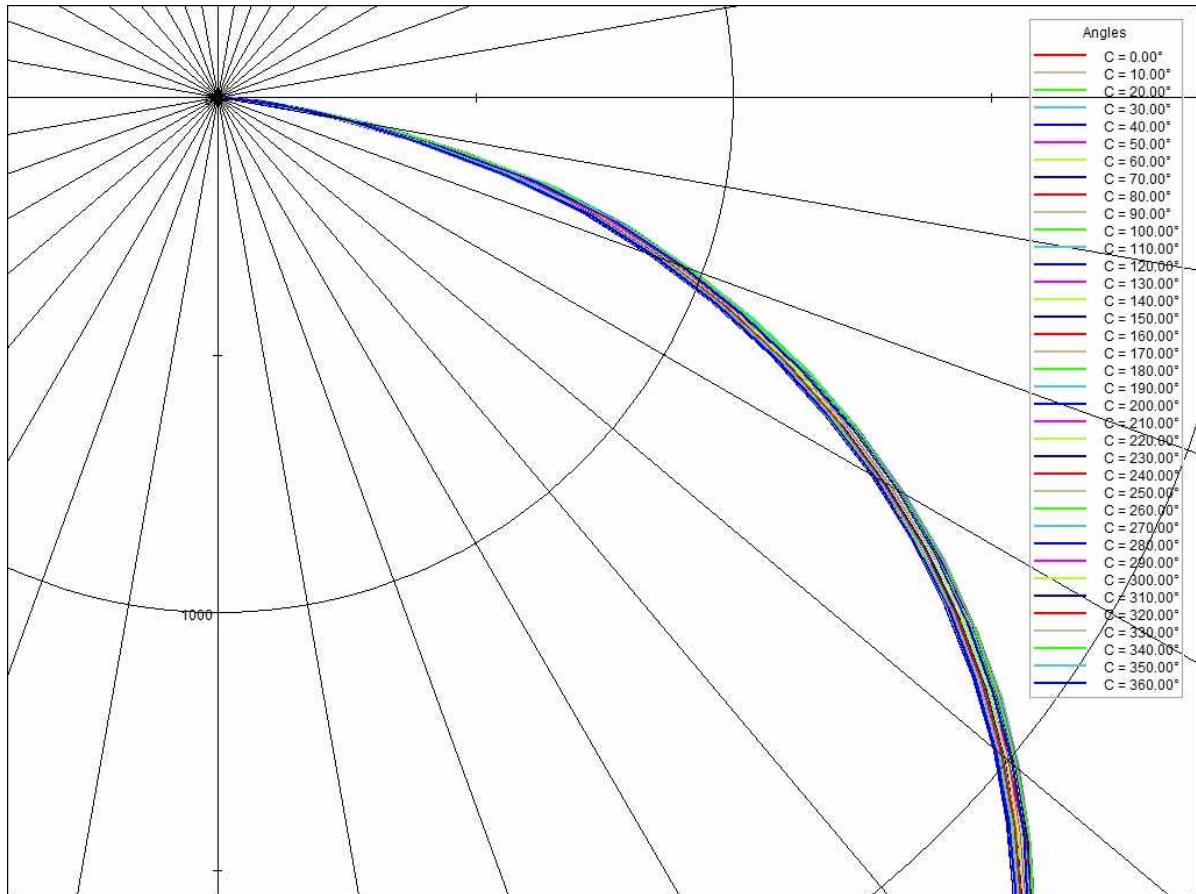
Polar Diagram



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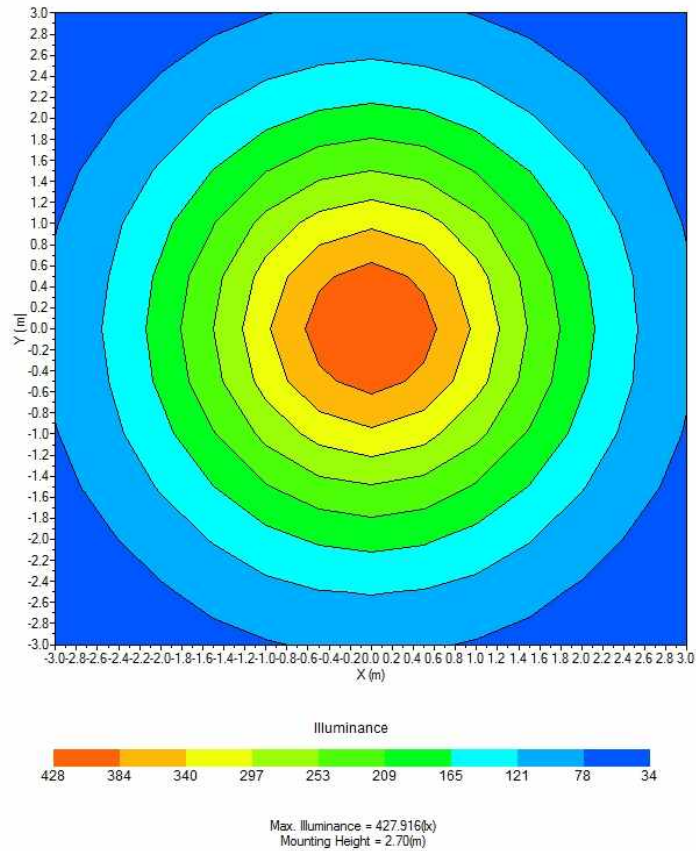
Polar Diagram (10%)



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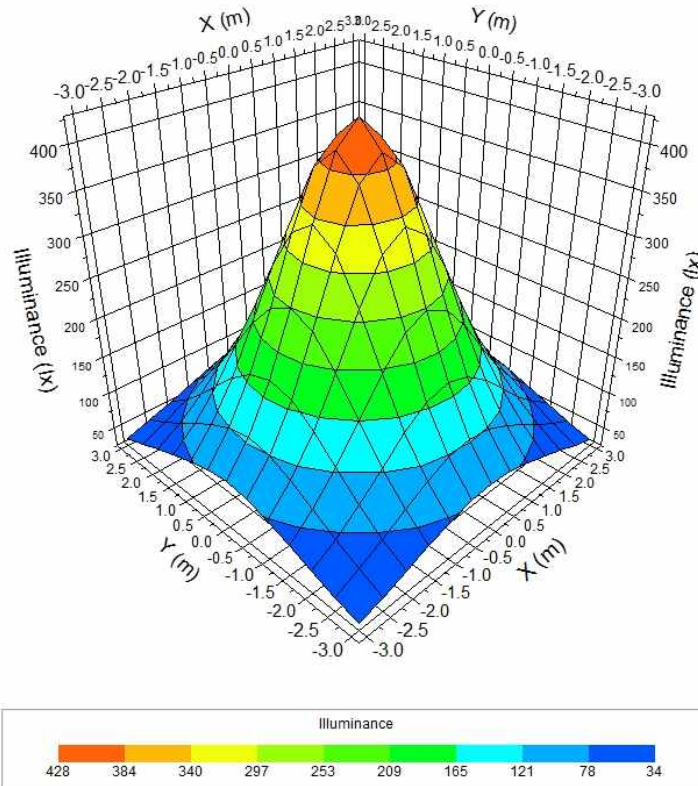
ISO Lux Diagram



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3D Lux Web

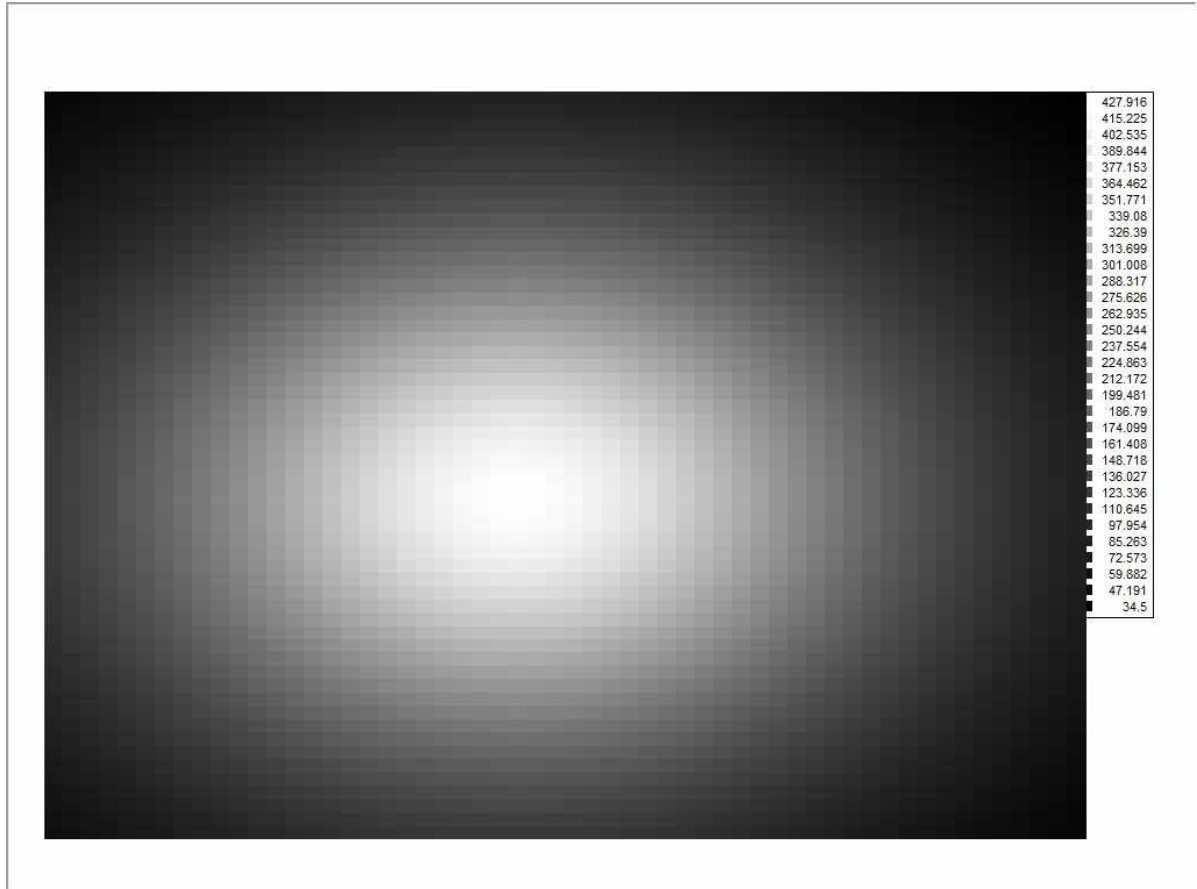


Max. Illuminance = 427.916(lx)
Mounting Height = 2.70(m)

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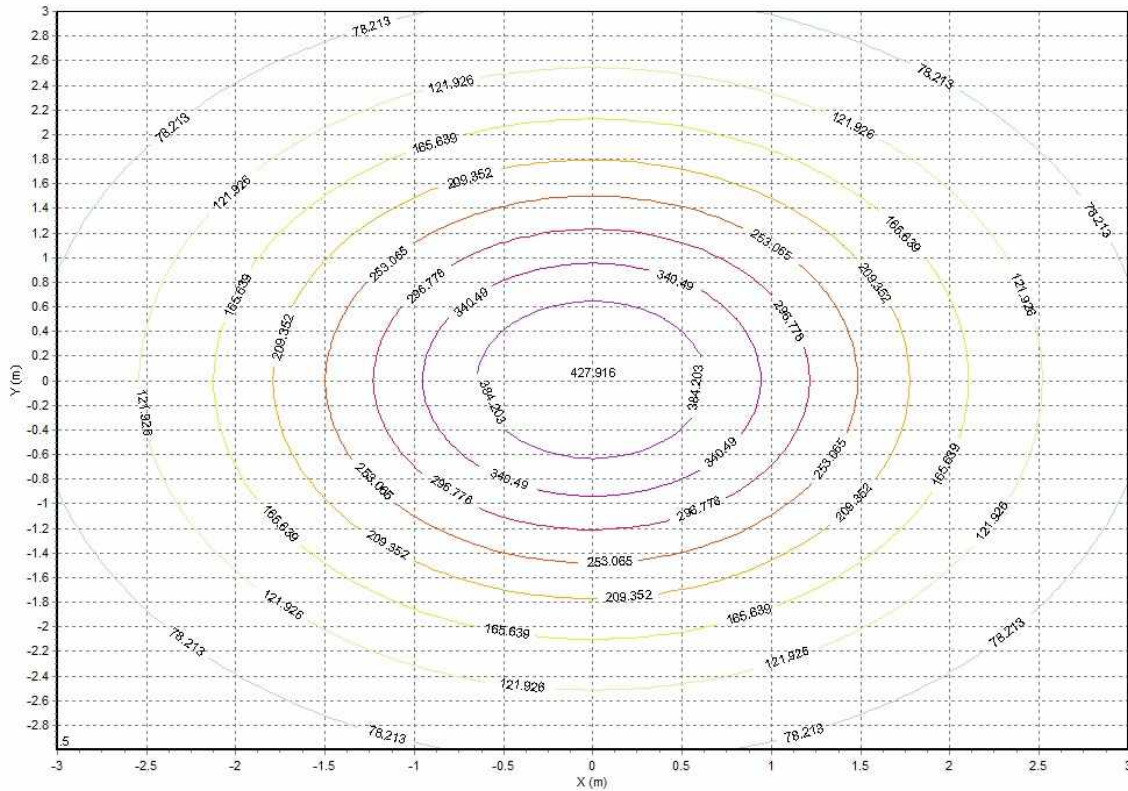
Grayed Illuminance



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Lum Flux :	9282.36 lm		
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Comments :			

IsoLux Contour



Max. Illuminance = 427.916(lx), Mounting Height = 2.70(m)

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Illuminance Grid

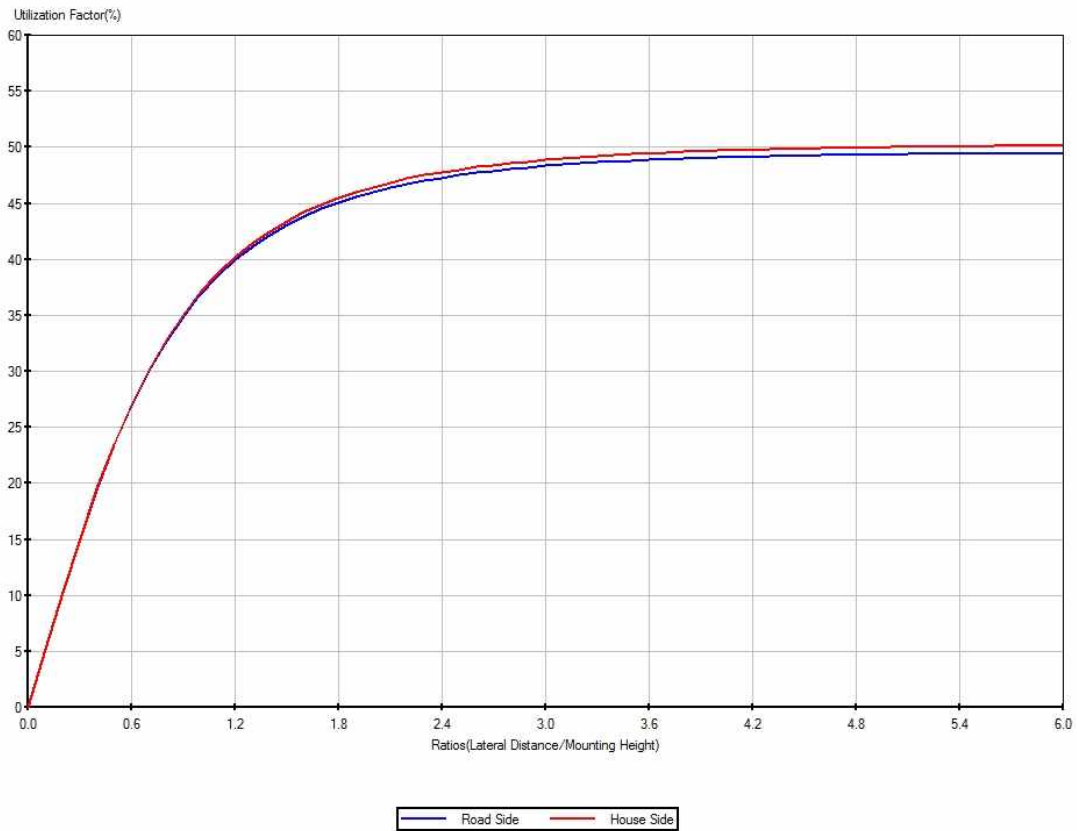
Y/X	-3.00	-2.50	-2.00	-1.50	-1.00	-0.50	0.00	0.50	1.00	1.50	2.00	2.50	3.00
3.00	35.3	44.8	55.5	66.7	77.0	84.0	86.7	83.7	76.5	66.1	54.8	44.2	34.6
2.50	44.6	58.3	74.7	92.3	109.2	121.3	125.9	120.9	108.6	91.6	73.9	57.5	43.8
2.00	55.3	74.4	98.5	126.0	153.0	173.5	181.2	173.0	152.1	125.0	97.4	73.5	54.4
1.50	66.4	92.2	125.7	166.0	207.7	240.7	253.2	240.0	206.7	164.8	124.5	91.0	65.4
1.00	76.1	108.6	152.6	207.5	266.8	314.8	333.6	314.3	265.5	206.0	151.1	107.2	75.2
0.50	83.6	120.8	172.8	239.8	314.7	376.9	401.4	376.0	313.1	238.2	171.2	119.3	82.3
0.00	86.7	125.9	181.1	253.1	333.9	401.9	427.9	400.2	331.5	250.3	178.3	123.4	84.5
-0.50	83.6	120.8	172.8	239.7	313.9	375.6	399.8	374.9	312.3	238.0	171.0	119.2	82.2
-1.00	76.3	108.3	151.8	206.3	265.1	313.0	331.3	312.2	263.8	204.8	150.3	106.9	75.1
-1.50	65.9	91.3	124.6	164.4	205.6	237.9	250.0	237.2	204.6	163.2	123.3	90.1	64.8
-2.00	54.6	73.6	97.1	124.1	150.8	170.9	178.0	170.5	149.9	123.1	96.1	72.6	53.7
-2.50	44.0	57.3	73.2	90.7	107.0	119.2	123.2	118.8	106.4	90.0	72.4	56.5	43.2
-3.00	34.5	43.7	54.2	65.2	75.0	82.1	84.4	81.9	74.6	64.7	53.6	43.0	33.9

All values in Lux, based on Luminaire Height of 2.7m
 Table Values : Average=149.60, Max.=427.92, Min=33.90
 Uniformity(minimum/average) =0.23

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UF Diagram



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UF Table [1/2]

Ratios(Distance/Mount Height)	Utilization Factor (Road Side)	Utilization Factor (House Side)
0.000	0.000	0.000
0.100	5.218	5.225
0.200	10.283	10.299
0.300	15.062	15.094
0.400	19.459	19.511
0.500	23.417	23.495
0.600	26.921	27.026
0.700	29.981	30.114
0.800	32.627	32.790
0.900	34.901	35.093
1.000	36.847	37.067
1.100	38.510	38.757
1.200	39.929	40.203
1.300	41.143	41.442
1.400	42.182	42.505
1.500	43.073	43.419
1.600	43.841	44.207
1.700	44.504	44.889
1.800	45.079	45.481
1.900	45.578	45.997
2.000	46.013	46.447
2.100	46.393	46.842
2.200	46.727	47.189
2.300	47.021	47.495
2.400	47.279	47.767
2.500	47.509	48.007
2.600	47.712	48.221
2.700	47.893	48.412
2.800	48.054	48.583
2.900	48.198	48.736
3.000	48.327	48.873
3.100	48.442	48.996
3.200	48.545	49.107
3.300	48.638	49.207

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UF Table [2/2]

Ratios(Distance/Mount Height)	Utilization Factor (Road Side)	Utilization Factor (House Side)
3.400	48.721	49.297
3.500	48.796	49.378
3.600	48.863	49.452
3.700	48.924	49.519
3.800	48.978	49.579
3.900	49.028	49.634
4.000	49.072	49.684
4.100	49.113	49.729
4.200	49.149	49.770
4.300	49.183	49.808
4.400	49.213	49.842
4.500	49.241	49.874
4.600	49.267	49.903
4.700	49.290	49.929
4.800	49.312	49.954
4.900	49.332	49.977
5.000	49.350	49.998
5.100	49.367	50.017
5.200	49.382	50.035
5.300	49.397	50.052
5.400	49.410	50.067
5.500	49.422	50.082
5.600	49.434	50.095
5.700	49.444	50.108
5.800	49.454	50.120
5.900	49.464	50.130
6.000	49.472	50.141

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IESNA Zonal-Cavity Coefficient Table

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	60	50	30	10	60	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio	Coefficients of Utilization for 10% Effective Floor Cavity Reflectance																	
0	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08	1.06	1.06	1.06	1.04	1.04	1.04	1.01	1.01	1.01	1.00
1	0.99	0.97	0.94	0.91	0.98	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.90	0.88	0.86	0.84
2	0.89	0.86	0.80	0.75	0.87	0.84	0.79	0.74	0.82	0.78	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.70
3	0.80	0.76	0.68	0.63	0.79	0.75	0.68	0.62	0.72	0.67	0.62	0.71	0.65	0.61	0.69	0.64	0.60	0.59
4	0.72	0.67	0.59	0.53	0.71	0.66	0.59	0.53	0.64	0.58	0.53	0.63	0.57	0.52	0.61	0.55	0.52	0.50
5	0.66	0.60	0.52	0.46	0.64	0.59	0.52	0.46	0.58	0.51	0.45	0.56	0.50	0.45	0.55	0.49	0.45	0.43
6	0.60	0.54	0.46	0.40	0.59	0.54	0.46	0.40	0.52	0.45	0.40	0.51	0.44	0.39	0.49	0.44	0.39	0.37
7	0.55	0.49	0.41	0.35	0.54	0.49	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.45	0.39	0.35	0.33
8	0.51	0.45	0.37	0.31	0.50	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31	0.29
9	0.47	0.41	0.33	0.28	0.46	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.28	0.26
10	0.43	0.38	0.31	0.25	0.43	0.38	0.30	0.25	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

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TM5 Utilisation Factor Table

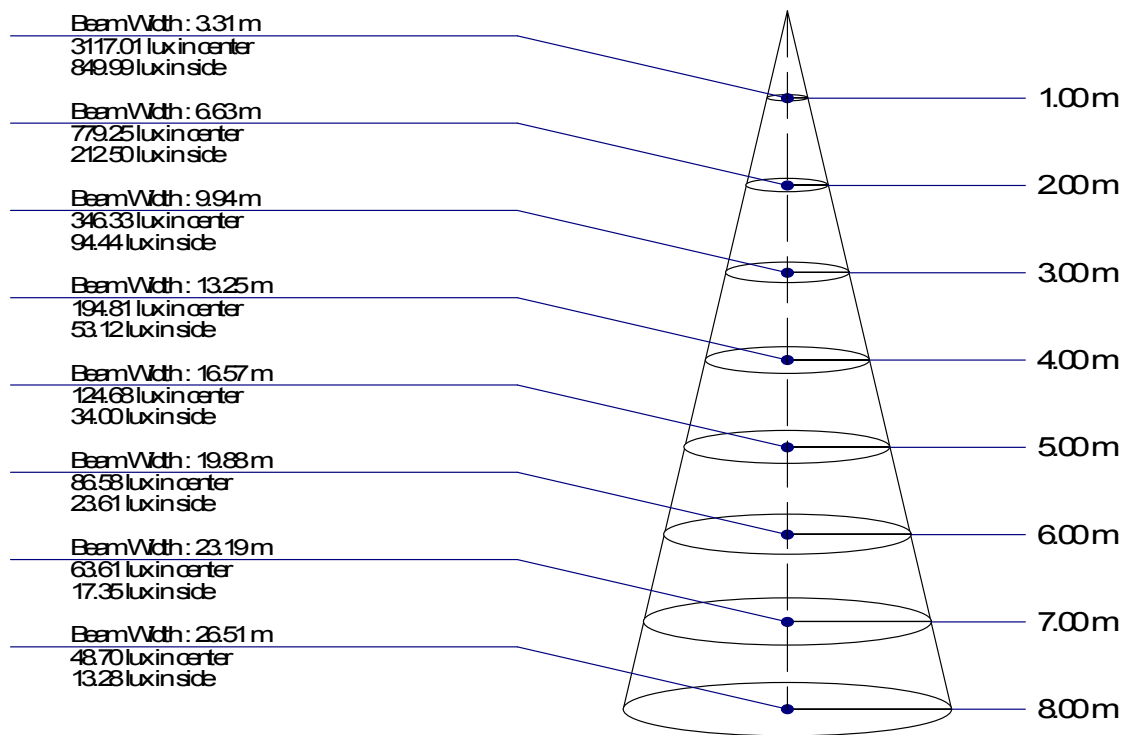
Utilisation Factor UFF standard Presentation			<i>SRNOV=1.50 SRMAX=1.50</i>								
Room Reflectance			Room Index								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.60	0.68	0.76	0.81	0.88	0.93	0.97	1.01	1.04
	0.30		0.52	0.61	0.69	0.74	0.82	0.88	0.92	0.97	1.01
	0.10		0.47	0.55	0.63	0.69	0.78	0.83	0.88	0.94	20661
0.50	0.50	0.20	0.58	0.66	0.73	0.78	0.85	0.90	0.93	0.97	1.00
	0.30		0.51	0.59	0.67	0.73	0.80	0.85	0.89	0.94	0.97
	0.10		0.46	0.54	0.62	0.68	0.76	0.82	0.86	0.91	0.95
0.30	0.50	0.20	0.57	0.64	0.71	0.76	0.82	0.87	0.90	0.94	0.96
	0.30		0.50	0.58	0.66	0.71	0.78	0.83	0.86	0.91	0.94
	0.10		0.46	0.54	0.61	0.67	0.75	0.80	0.84	0.89	0.92
0.00	0.00	0.00	0.44	0.51	0.59	0.64	0.71	0.76	0.80	0.84	0.87
Distribution Factor		DR(F)	0.44	0.51	0.59	0.64	0.71	0.76	0.80	0.84	0.87
		DR(W)	0.56	0.49	0.41	0.36	0.29	0.24	0.20	0.16	0.13
		DR(C)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BZNumbers			4	4	4	4	4	4	4	4	4

Multiply UF values by service correction factors. Calculated in accordance with CIBS Technical Memorandum No.5 1980

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Conical Illuminance



Average Beam Angle = 117.8°
Max. Beam Angle = 117.9° at $\Phi 1 = 110^\circ \sim \Phi 2 = 290^\circ$
Min. Beam Angle = 117.7° at $\Phi 1 = 150^\circ \sim \Phi 2 = 330^\circ$

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Comments :			

CutOff Classification

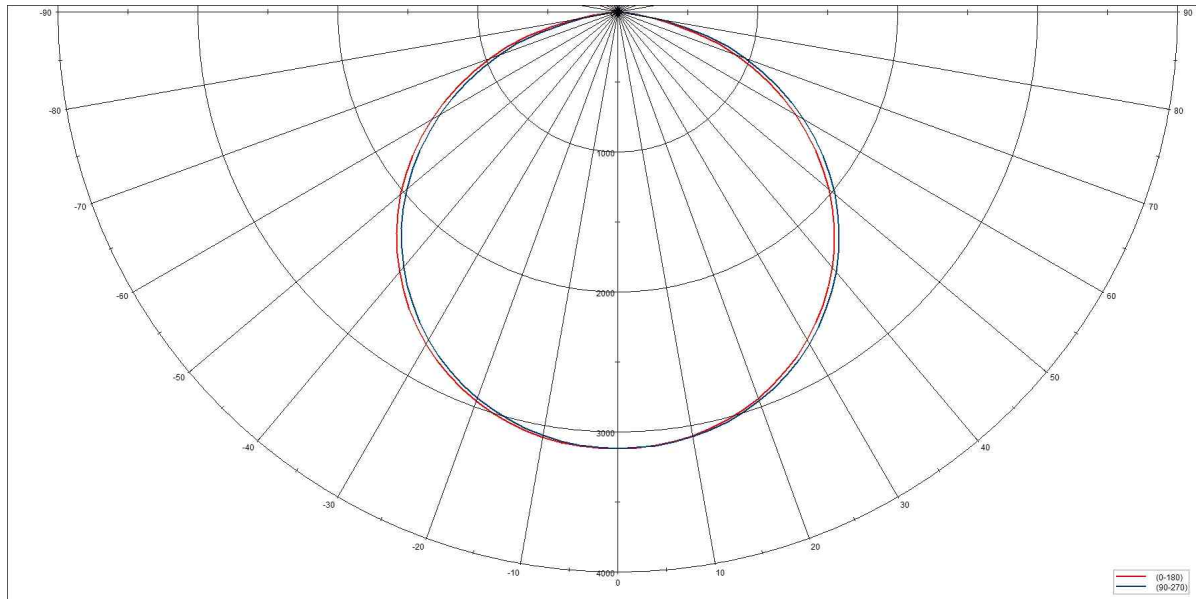
Classification	Candela at or above	
	90°	80°
Full Cutoff	0	<10%
Cutoff	<25%	<10%
Semicutoff	<5%	<20%
Noncutoff	NA	NA

Result		
Max. Candela	3360(cd/1000lm)	
Angle	90°	80°
cd/1000lm	1.65(cd/1000lm) : 0.49(%)	34.81(cd/1000lm) : 10.36(%)
Classification	SemiCutoff	

PHOTOMETRIC RESULT

Name :			
File :	01 MXLK-80.IES	Length :	0.000 m
Report No. :	20170518	Width :	0.000 m
Catalog No. :		Height :	0.000 m
Lamp Shape :	Point	Operator :	MIN
# of Lamp :	1		
Lum Flux :	9282.36 lm		
Date :	2017-05-18		
Comments :			

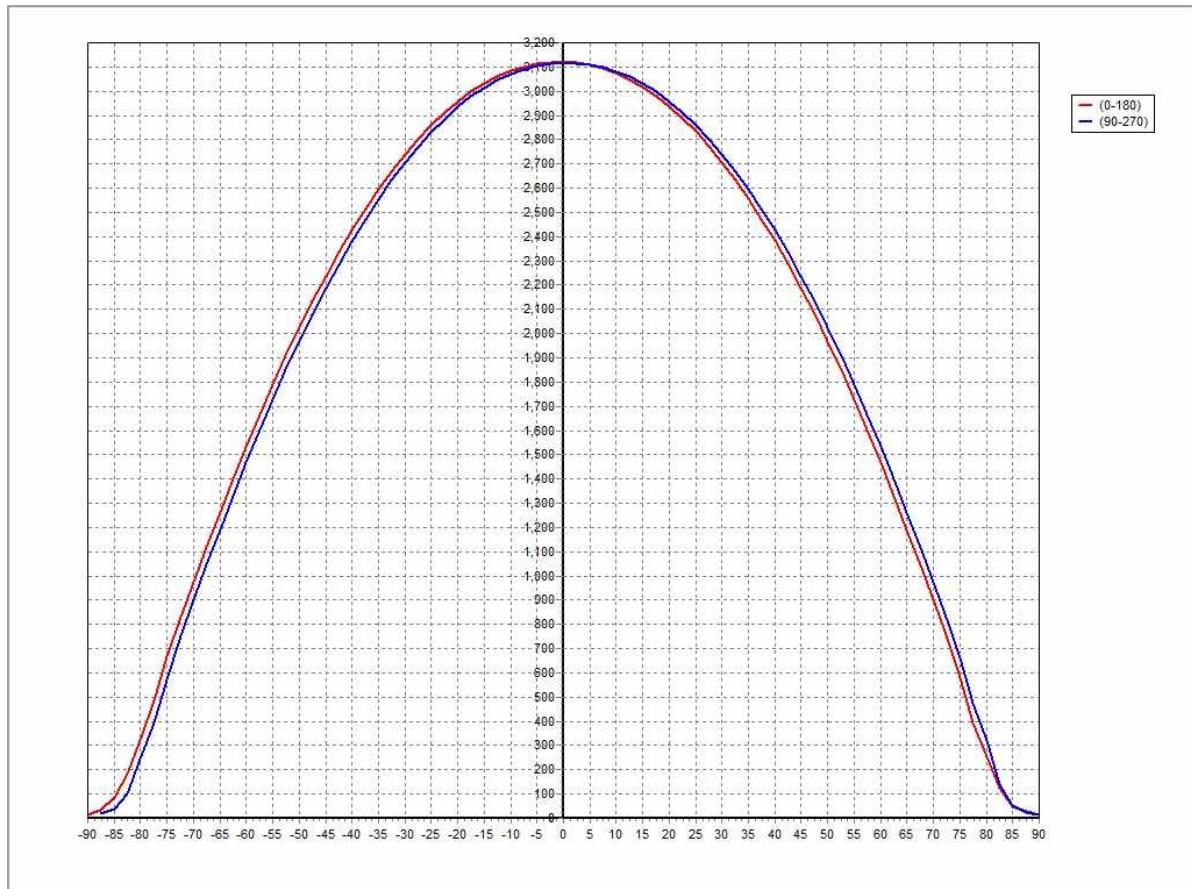
Polar Distribution



PHOTOMETRIC RESULT

Name :			
File :	01 MXLK-80.IES	Length :	0.000 m
Report No. :	20170518	Width :	0.000 m
Catalog No. :		Height :	0.000 m
Lamp Shape :	Point	Operator :	MIN
# of Lamp :	1		
Lum Flux :	9282.36 lm		
Date :	2017-05-18		
Comments :			

Cartesian Distrib.



PHOTOMETRIC RESULT

Name :			
File :	01 MXLK-80.IES	Length :	0.000 m
Report No. :	20170518	Width :	0.000 m
Catalog No. :		Height :	0.000 m
Lamp Shape :	Point	Operator :	MIN
# of Lamp :	1		
Lum Flux :	9282.36 lm		
Date :	2017-05-18		
Comments :			

Average Luminaire Luminance [cd/m^2]

Cannot calculate luminance for point source or Not Defined!

