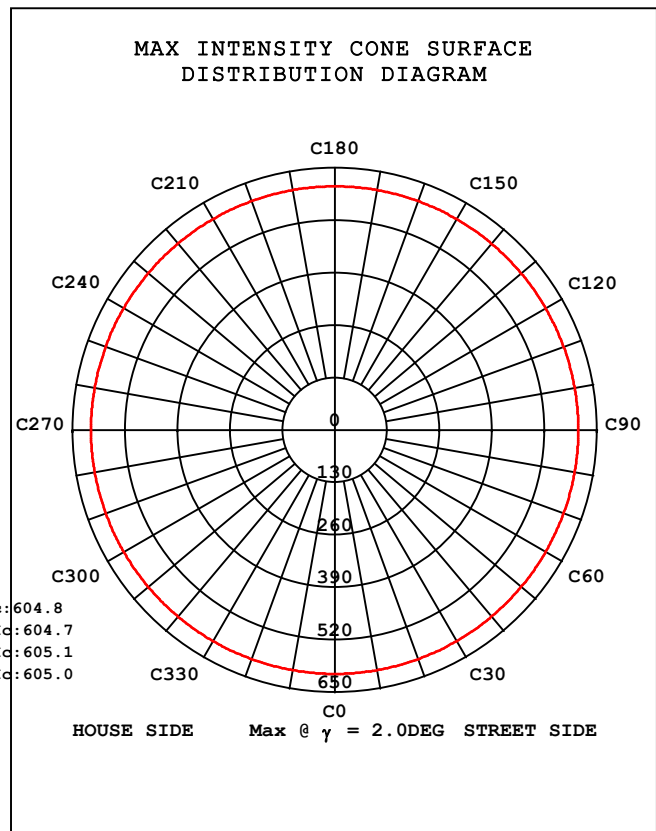
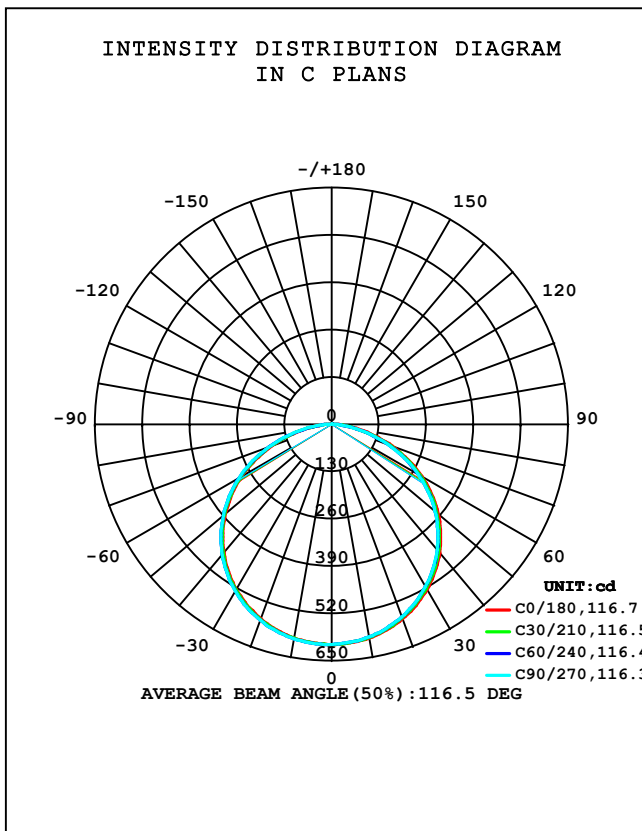


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: EKF4419HL90	TYPE: 4000K	WEIGHT: 1.233
SPEC.: 120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.: 0.98*0.031	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.90 lm/W			
MODEL	2835-240P	Imax (cd)	605.1	η street_up (%)	0.1
NOMINAL POWER (W)		LOR (%)	100.0	η street_down (%)	49.1
RATED VOLTAGE (V)	DC12	TOTAL FLUX (lm)	1803	η house_up (%)	0.0
NOMINAL FLUX (lm)	1803.32	MAXIMUM @ (C, γ)	240, 2.0	η house_down (%)	50.8
LAMPS INSIDE	1	η up (%)	0.1	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)	DC12	η down (%)	99.9	SLI	17.143

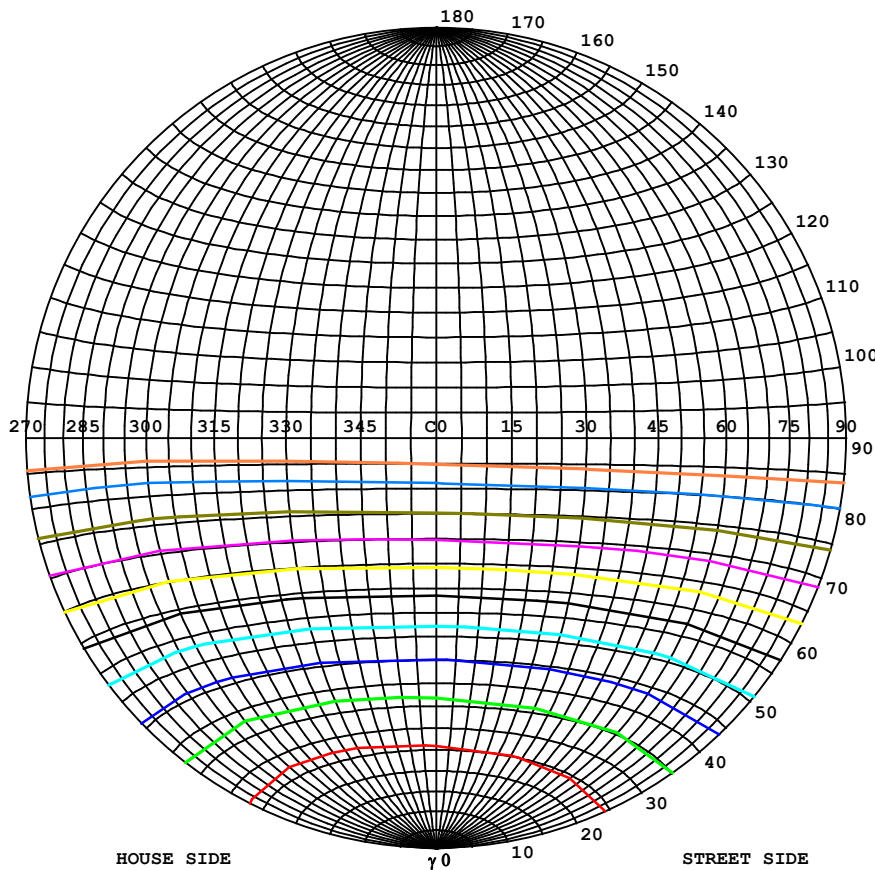


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: QC01
Test Date: 2021-09-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K

STREETLIGHT ISOCANDELA DIAGRAM

NAME: EKF4419HL90	TYPE: 4000K	WEIGHT: 1.233
SPEC.: 120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.: 0.98*0.031	Shielding Angle:



Classification:

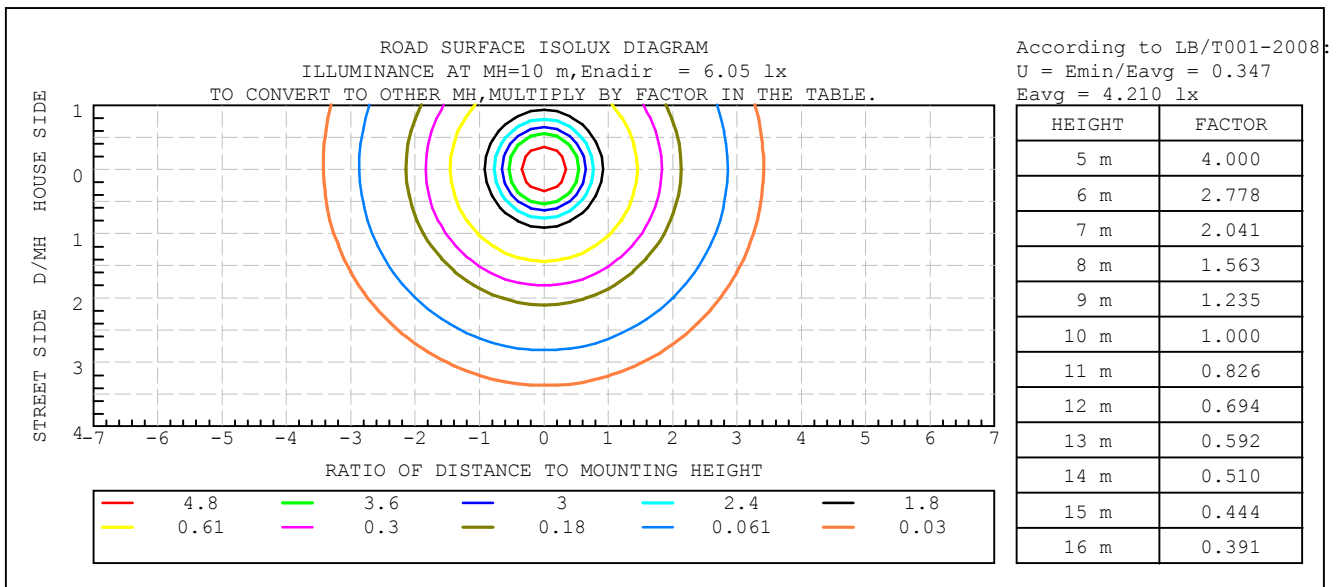
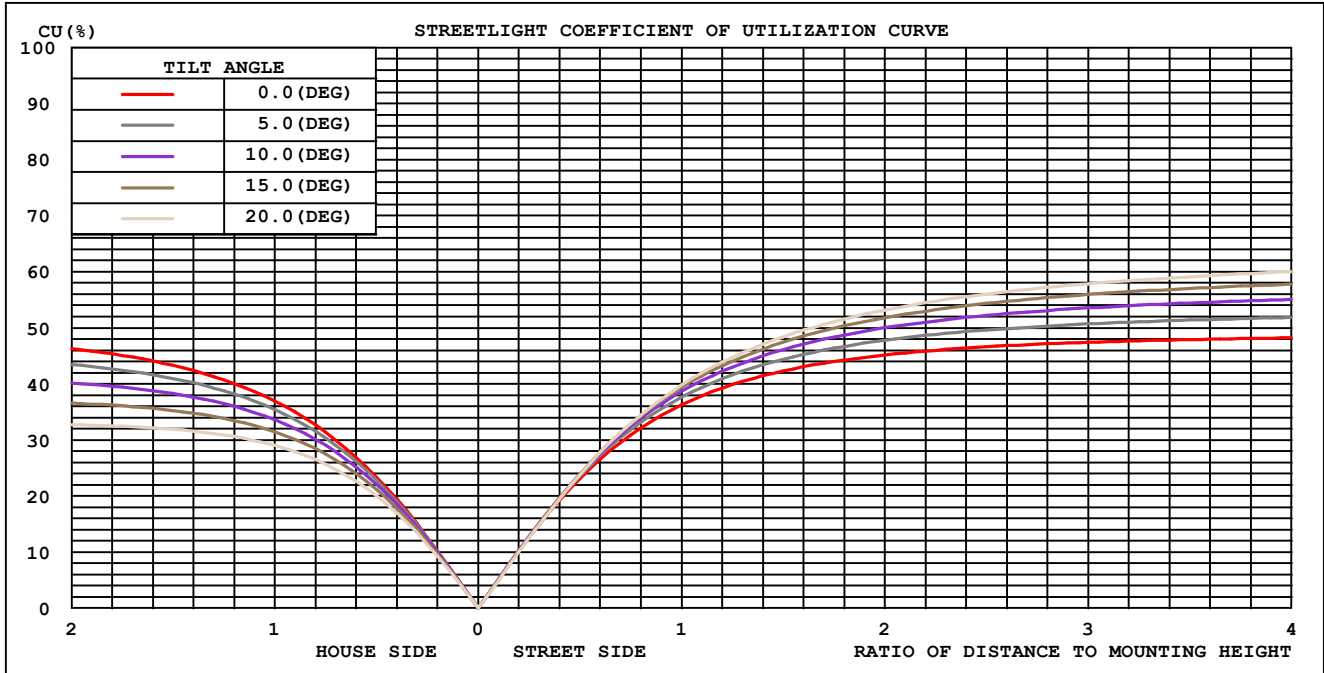
IES: Type V - Very Short
 CIE: Narrow - Short
 IES: Cut-off
 CIE: Semi-cut-off
 Max. At 80: 45.00cd/klm
 Max. At 90: 6.131cd/klm
 Max. 80-90: 45.00cd/klm
 NRB 5101: Limited[6.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	605
90%	545
80%	484
70%	424
60%	363
50%	303
40%	242
30%	182
20%	121
10%	61
5%	30

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: QC01
 Test Date: 2021-09-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.702m [K=1.0000]
 Remarks: EKF4419HL90
 DC12V IP20 2835-240P
 4000K

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: QC01
Test Date: 2021-09-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K

ZONAL FLUX DIAGRAM

NAME: EKF4419HL90	TYPE:4000K	WEIGHT:1..233
SPEC.:120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.:0.98*0.031	Shielding Angle:

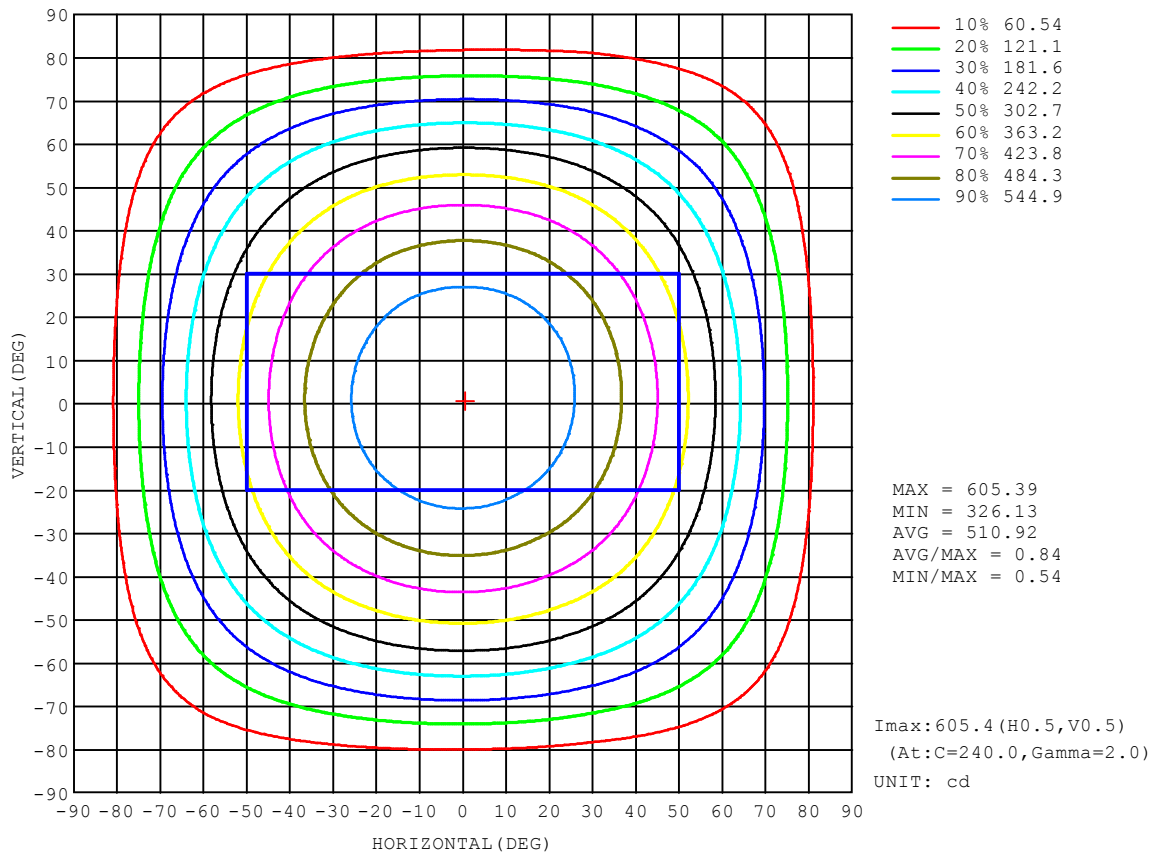
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	596.1	593.9	593.0	594.1	596.5	597.8	598.4	597.8	0- 10	57.30	57.30	3.18,3.18
20	569.4	564.9	563.1	565.0	569.2	572.4	573.4	572.7	10- 20	165.1	222.4	12.3,12.3
30	524.3	518.2	516.0	518.3	524.2	528.4	530.2	529.2	20- 30	252.8	475.2	26.4,26.4
40	462.0	454.6	451.6	454.9	461.1	466.3	468.5	467.6	30- 40	309.3	784.5	43.5,43.5
50	382.3	374.2	370.7	374.1	381.0	387.0	389.0	388.3	40- 50	326.1	1111	61.6,61.6
60	286.7	278.0	274.1	277.8	284.3	290.8	293.6	292.9	50- 60	299.0	1410	78.2,78.2
70	178.4	170.0	166.8	170.4	176.1	181.8	185.2	185.9	60- 70	229.2	1639	90.9,90.9
80	70.19	62.26	60.78	66.05	68.51	71.70	76.69	79.46	70- 80	128.6	1767	98,98
90	4.542	3.544	5.628	10.89	5.163	3.099	3.900	7.886	80- 90	34.19	1802	99.9,99.9
100	0	0	0	0.4272	0	0	0	0.0733	90-100	1.731	1803	100,100
110	0	0	0	0	0	0	0	0	100-110	0.0056	1803	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1803	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1803	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1803	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1803	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1803	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1803	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1803	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:DEG
Operators:QC01
Test Date:2021-09-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K

ISOCANDELA DIAGRAM

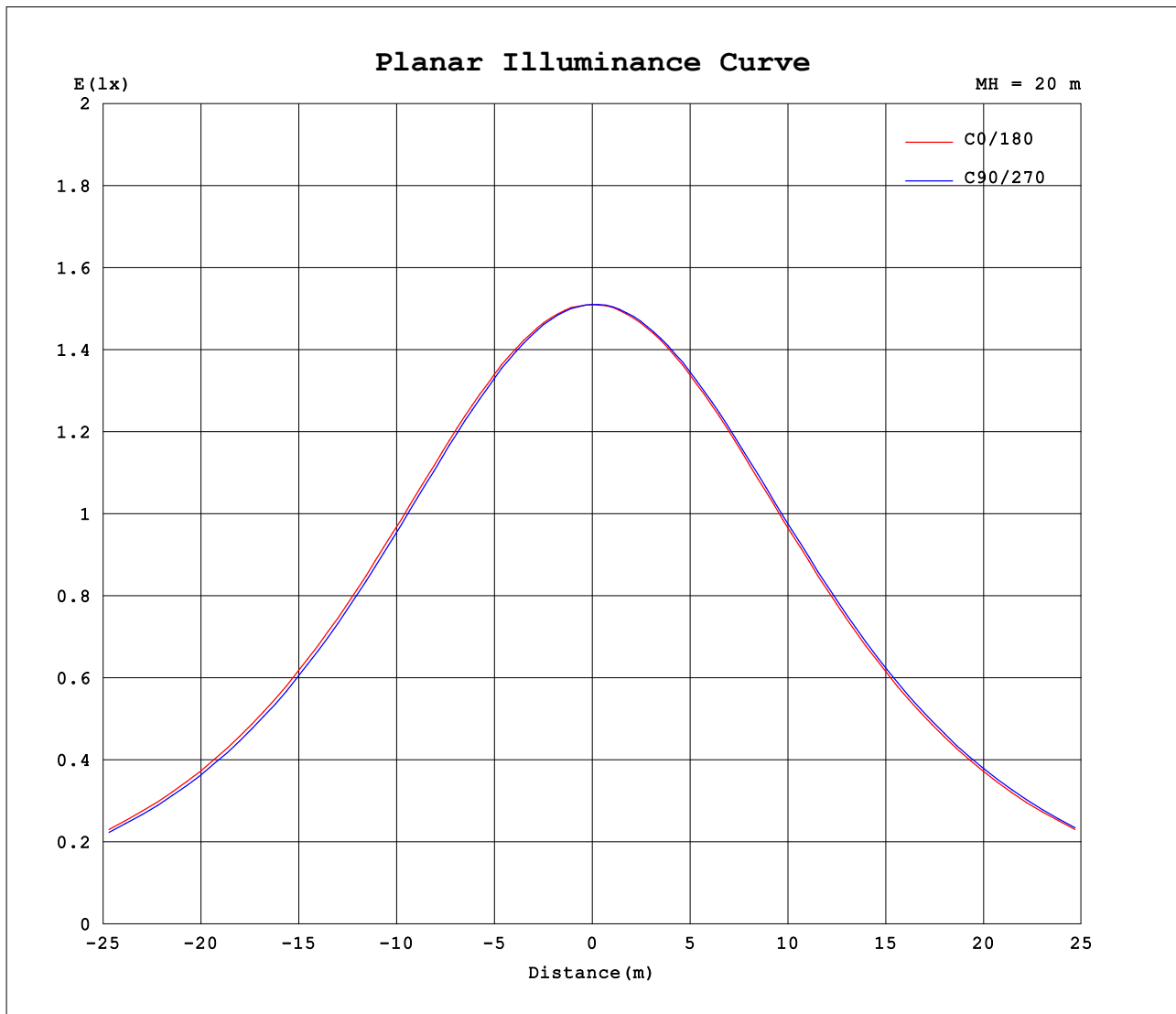
NAME: EKF4419HL90	TYPE: 4000K	WEIGHT: 1.233
SPEC.: 120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.: 0.98*0.031	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: QC01
 Test Date: 2021-09-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.702m [K=1.0000]
 Remarks: EKF4419HL90
 DC12V IP20 2835-240P
 4000K

Planar Illuminance Curve



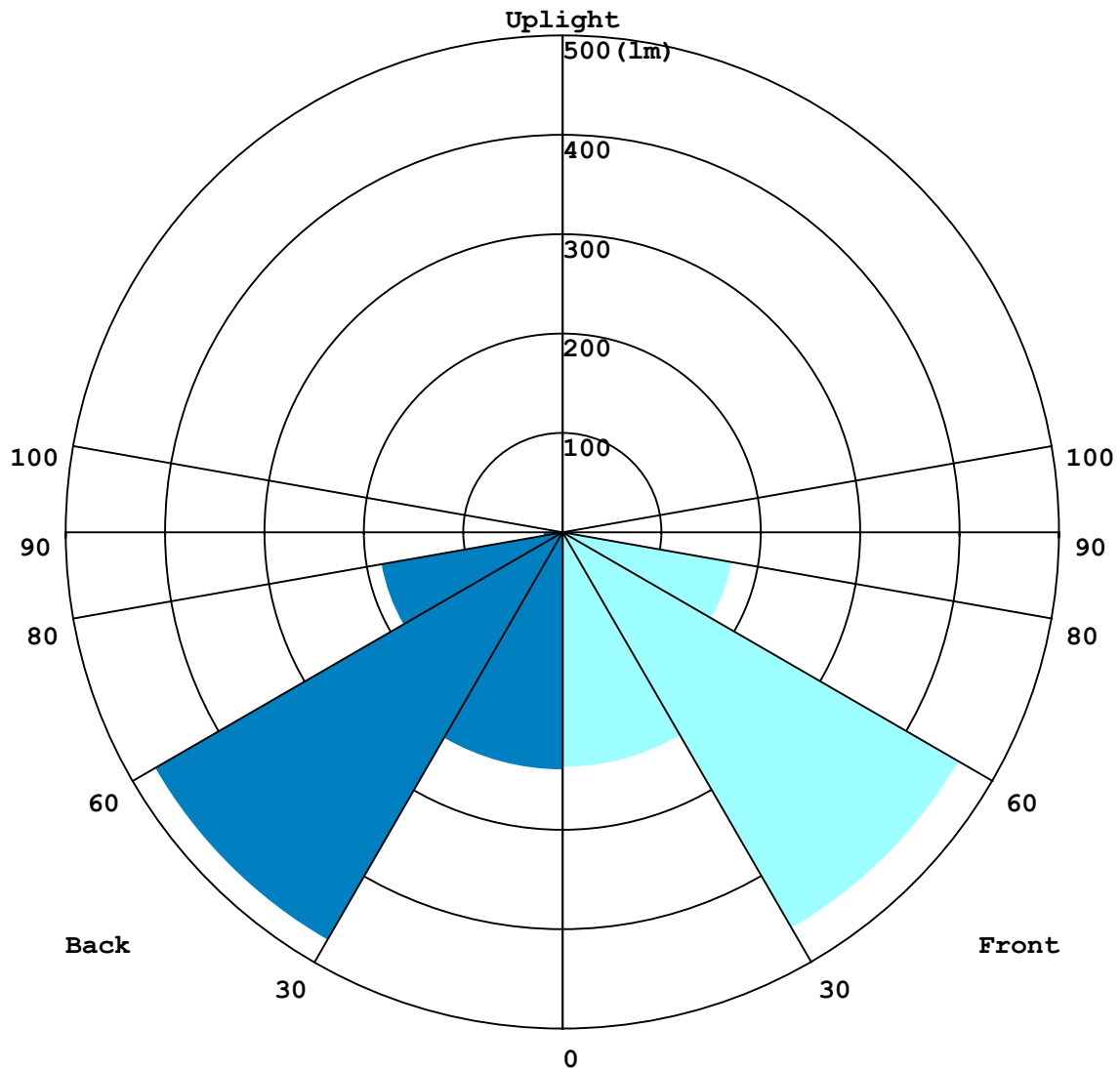
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: QC01
 Test Date: 2021-09-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 8.702m [K=1.0000]
 Remarks: EKF4419HL90
 DC12V IP20 2835-240P
 4000K

LCS REPORT

NAME: EKF4419HL90	TYPE:4000K	WEIGHT:1..233
SPEC.:120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.:0.98*0.031	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: QC01
Test Date: 2021-09-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity: 65.0%
Test Distance: 8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K

BUG REPORT

NAME: EKF4419HL90	TYPE:4000K	WEIGHT:1..233
SPEC.:120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.:0.98*0.031	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	236.25	13.1
FM - Front-Medium(30-60)	460.66	25.5
FH - Front-High(60-80)	173	9.6
FVH - Front-Very High(80-90)	15.625	0.9
Total Forward Light	886.72	49.2

BL - Back-Low(0-30)	239	13.3
BM - Back-Medium(30-60)	473.68	26.3
BH - Back-High(60-80)	184.8	10.2
BVH - Back-Very High(80-90)	18.562	1.0
Total Back Light	916.6	50.8

UL - Uplight-Low(90-100)	1.7314	0.1
UH - Uplight-High(100-180)	0.0055766	0.0
Total Up Light	1.737	0.1

BUG(Back,Up,Glare) Rating	B1-U1-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	916.04	0.56155	916.6
Street Side	885.54	1.1755	886.72

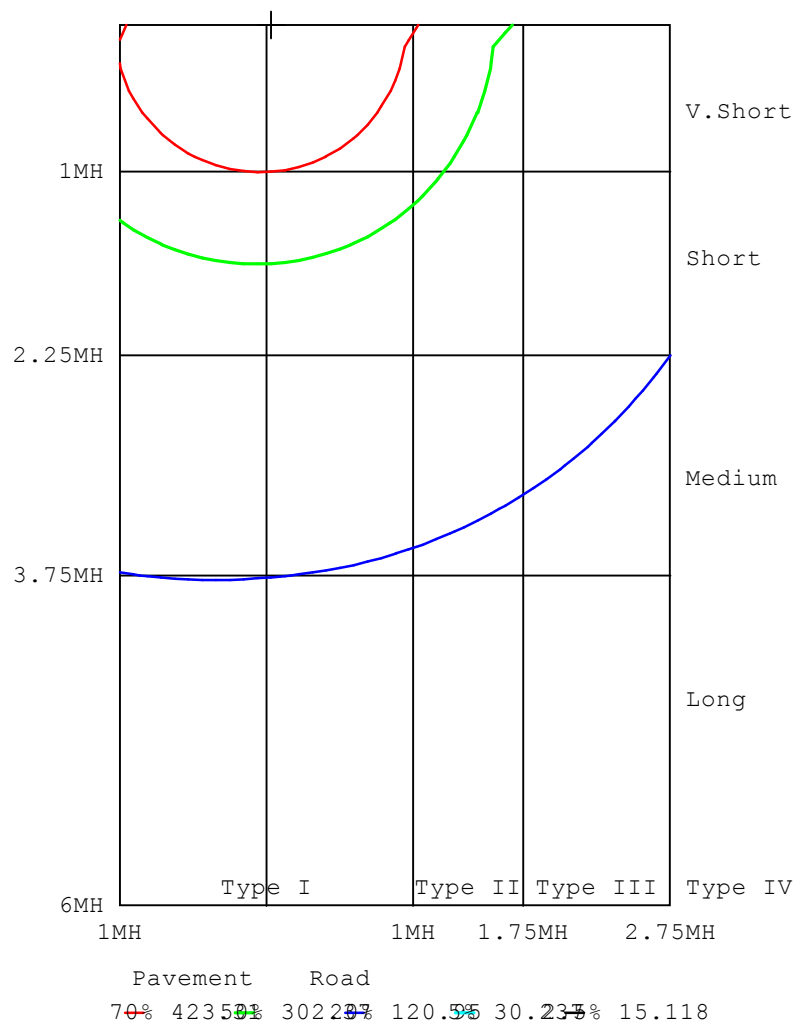
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:DEG
Operators:QC01
Test Date:2021-09-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K

ROAD ISOCANDELA REPORT

NAME: EKF4419HL90	TYPE:4000K	WEIGHT:1..233
SPEC.:120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.:0.98*0.031	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:DEG
Operators:QC01
Test Date:2021-09-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: EKF4419HL90	TYPE:4000K	WEIGHT:1..233
SPEC.:120度	DIM.: 1000MM	SERIAL No.:
MFR.:	SUR.:0.98*0.031	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	605	605	605	605	605	605	605	605	605	605	605	605						
5	603	602	601	601	602	602	603	603	604	604	604	603						
10	596	595	593	593	594	595	596	597	599	598	598	597						
15	585	583	580	580	581	583	585	587	588	588	588	587						
20	569	566	563	563	564	566	569	571	574	573	573	572						
25	549	545	542	542	542	545	549	551	554	554	554	553						
30	524	520	516	516	517	520	524	527	530	530	530	528						
35	495	491	486	485	487	491	495	498	501	501	502	499						
40	462	457	452	452	453	457	461	464	468	468	469	466						
45	424	419	413	413	414	419	423	427	431	431	431	428						
50	382	377	371	371	372	376	381	385	389	389	390	387						
55	337	331	325	325	326	330	335	339	344	343	344	341						
60	287	281	275	274	276	280	284	289	293	294	294	292						
65	234	228	222	222	223	227	231	235	240	241	242	239						
70	178	173	167	167	169	172	176	180	184	185	187	185						
75	122	117	111	112	114	118	121	123	127	129	132	130						
80	70.2	64.8	59.7	60.8	63.8	68.3	68.5	69.9	73.5	76.7	81.1	77.8						
85	29.0	23.7	19.7	21.6	26.8	29.5	26.4	26.9	29.0	32.9	37.2	33.9						
90	4.54	4.24	2.85	5.63	10.7	11.1	5.16	2.98	3.22	3.90	7.61	8.17						
95	0.00	0.73	0.00	1.16	4.02	4.02	0.27	0.00	0.00	0.00	0.58	1.92						
100	0.00	0.00	0.00	0.00	0.43	0.42	0.00	0.00	0.00	0.00	0.00	0.15						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:DEG
Operators:QC01
Test Date:2021-09-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:8.702m [K=1.0000]
Remarks: EKF4419HL90
DC12V IP20 2835-240P
4000K