Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-30SE-N-UNV-L835-ED3-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By E9911574 / USPTCWHP6081592

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-30SE-N-UNV-L835-ED3-U
Description:	METALUX HIGH BAY LINEAR LED
Light Source:	-
Ballast/Driver:	-

Luminaire Equipment:	Sample No.	Condition	Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27509.0 lumens
Efficiency:	N/A
Efficacy:	142.5 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.62 / 0.77
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	193
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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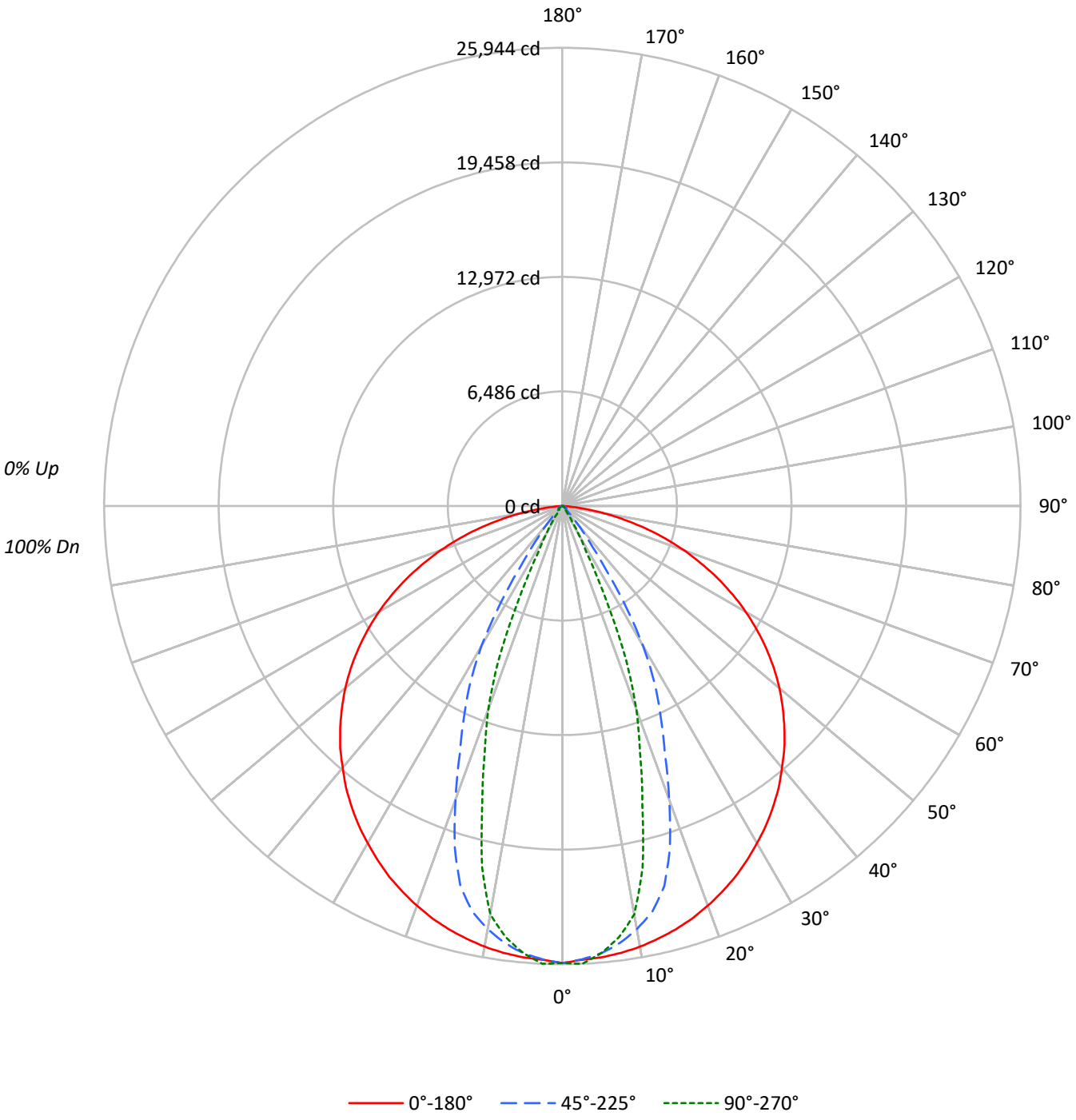
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34824	34824	34824
5°	34637	34331	34316
10°	34616	33231	32065
15°	34567	31046	24403
20°	34486	25309	17566
25°	34399	19569	8653
30°	34246	14222	2806
35°	34165	6310	722
40°	33987	2563	487
45°	33835	719	518
50°	33571	510	575
55°	33087	607	246
60°	32271	676	149
65°	30943	431	176
70°	28747	383	218
75°	25148	288	301
80°	18804	353	429
85°	9314	455	570

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2401.9	8.7
10°-20°	6005.9	21.8
20°-30°	6505.2	23.6
30°-40°	4817.4	17.5
40°-50°	3469.8	12.6
50°-60°	2148.5	7.8
60°-70°	1321.3	4.8
70°-80°	696.5	2.5
80°-90°	142.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14913.0	54.2
0°-40°	19730.4	71.7
0°-60°	25348.6	92.1
0°-90°	27509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25882	25882	25882	25882	25882	
5°	25645	25740	25419	25437	25408	###
15°	24816	24239	22288	18954	17519	7005
25°	23170	21224	13182	8292	5829	10676
35°	20800	14664	3841	904	440	13013
45°	17781	8262	378	273	272	13713
55°	14105	1702	259	234	105	12592
65°	9719	180	135	86	55	9590
75°	4838	42	55	73	58	5109
85°	603	16	30	44	37	912
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25881.7	25881.7	25881.7	25881.7	*25881.7*
2.5°	*25715.5*	*25879.3*	*25686.0*	*25830.0*	*25944.5*
5°	25645.3	25740.1	25418.8	25437.2	*25407.7*
7.5°	25522.2	25500.0	24959.5	24723.1	*24619.7*
10°	25336.3	25189.8	24323.0	23829.3	*23469.7*
12.5°	25096.2	24768.7	23528.8	21959.0	*20983.9*
15°	24815.5	24239.3	22287.8	18953.6	*17519.2*
17.5°	24480.6	23664.3	20258.7	15885.3	*14604.9*
20°	24085.4	23022.8	17675.6	13515.2	*12268.0*
22.5°	23644.6	22242.2	15166.3	11232.5	*9453.4*
25°	23170.5	21224.0	13181.6	8292.3	*5828.6*
27.5°	22622.6	19915.2	11319.9	4884.3	*2974.7*
30°	22042.7	18339.2	9154.2	2627.4	*1806.2*
32.5°	21457.9	16552.7	6477.5	1641.2	*1024.4*
35°	20800.4	14664.0	3841.4	903.7	*439.5*
37.5°	20114.6	12932.9	2270.4	411.2	*282.0*
40°	19350.0	11350.7	1459.0	273.3	*277.0*
42.5°	18611.3	9875.7	821.2	269.6	*274.6*
45°	17781.4	8261.6	378.0	273.3	*272.1*
47.5°	16923.3	6588.3	245.0	275.8	*275.8*
50°	16038.0	4710.7	243.8	282.0	*274.6*
52.5°	15103.5	2938.9	253.6	280.7	*225.3*
55°	14105.0	1701.6	258.6	233.9	*104.7*
57.5°	13070.8	1003.5	261.0	134.2	*59.1*
60°	11992.2	555.3	251.2	99.7	*55.4*
62.5°	10880.4	264.7	198.2	93.6	*54.2*
65°	9719.3	179.8	135.4	86.2	*55.4*
67.5°	8514.0	139.1	107.1	81.3	*56.6*
70°	7307.4	103.4	97.3	81.3	*55.4*
72.5°	6081.1	70.2	81.3	82.5	*55.4*
75°	4837.5	41.9	55.4	72.6	*57.9*
77.5°	3605.0	25.9	43.1	75.1	*70.2*
80°	2426.8	22.2	45.6	70.2	*55.4*
82.5°	1424.5	19.7	44.3	54.2	*44.3*
85°	603.3	16.0	29.5	44.3	*36.9*
87.5°	113.3	13.5	23.4	35.7	*32.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)