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-LD5-36SE-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-LD5-36SE-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:	31783.0 lumens
Efficiency:	N/A
Efficacy:	137.0 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):	232
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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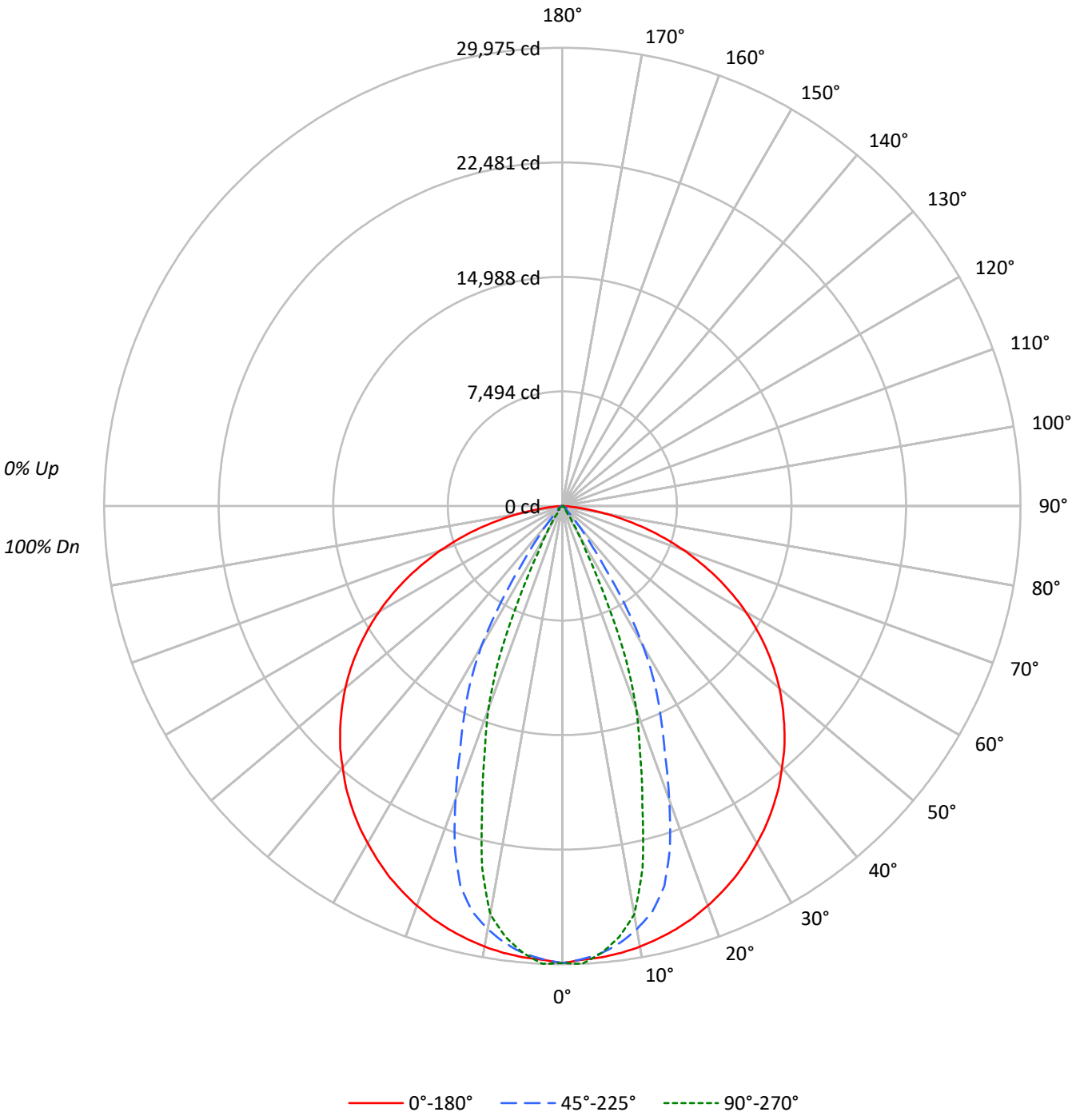
Luminous Intensity Polar Plot



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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°	40234	40234	40234
5°	40019	39665	39648
10°	39994	38394	37047
15°	39937	35869	28195
20°	39844	29241	20295
25°	39743	22609	9997
30°	39567	16432	3242
35°	39474	7290	834
40°	39267	2961	562
45°	39092	831	598
50°	38787	590	664
55°	38228	701	284
60°	37285	781	172
65°	35751	498	204
70°	33213	442	252
75°	29055	333	348
80°	21725	408	496
85°	10760	526	659

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2775.0	8.7
10°-20°	6939.0	21.8
20°-30°	7516.0	23.6
30°-40°	5565.9	17.5
40°-50°	4008.9	12.6
50°-60°	2482.3	7.8
60°-70°	1526.6	4.8
70°-80°	804.8	2.5
80°-90°	164.7	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°	17229.9	54.2
0°-40°	22795.8	71.7
0°-60°	29287.0	92.1
0°-90°	31783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29903	29903	29903	29903	29903	
5°	29630	29739	29368	29389	29355	###
15°	28671	28005	25750	21898	20241	8094
25°	26770	24522	15230	9581	6734	12335
35°	24032	16942	4438	1044	508	15035
45°	20544	9545	437	316	314	15844
55°	16296	1966	299	270	121	14548
65°	11229	208	156	100	64	11080
75°	5589	48	64	84	67	5903
85°	697	18	34	51	43	###
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29902.9	29902.9	29902.9	29902.9	*29902.9*
2.5°	*29710.8*	*29900.0*	*29676.7*	*29843.1*	*29975.4*
5°	29629.8	29739.3	29368.0	29389.4	*29355.2*
7.5°	29487.5	29461.9	28837.4	28564.3	*28444.8*
10°	29272.7	29103.4	28102.0	27531.5	*27116.2*
12.5°	28995.3	28616.9	27184.4	25370.7	*24244.1*
15°	28671.0	28005.2	25750.5	21898.3	*20241.1*
17.5°	28284.1	27340.9	23406.2	18353.4	*16874.0*
20°	27827.4	26599.8	20421.8	15615.1	*14174.0*
22.5°	27318.2	25697.9	17522.7	12977.7	*10922.1*
25°	26770.5	24521.5	15229.5	9580.7	*6734.2*
27.5°	26137.5	23009.3	13078.7	5643.2	*3436.8*
30°	25467.5	21188.5	10576.5	3035.7	*2086.8*
32.5°	24791.8	19124.4	7483.9	1896.2	*1183.5*
35°	24032.1	16942.3	4438.3	1044.1	*507.8*
37.5°	23239.8	14942.2	2623.1	475.1	*325.8*
40°	22356.4	13114.3	1685.7	315.8	*320.1*
42.5°	21502.9	11410.1	948.8	311.5	*317.2*
45°	20544.1	9545.1	436.7	315.8	*314.4*
47.5°	19552.6	7611.9	283.1	318.6	*318.6*
50°	18529.8	5442.6	281.7	325.8	*317.2*
52.5°	17450.1	3395.6	293.0	324.3	*260.3*
55°	16296.4	1965.9	298.7	270.3	*120.9*
57.5°	15101.5	1159.4	301.6	155.1	*68.3*
60°	13855.4	641.6	290.2	115.2	*64.0*
62.5°	12570.9	305.8	229.0	108.1	*62.6*
65°	11229.4	207.7	156.5	99.6	*64.0*
67.5°	9836.8	160.7	123.8	93.9	*65.4*
70°	8442.7	119.5	112.4	93.9	*64.0*
72.5°	7025.8	81.1	93.9	95.3	*64.0*
75°	5589.1	48.4	64.0	83.9	*66.9*
77.5°	4165.2	29.9	49.8	86.8	*81.1*
80°	2803.8	25.6	52.6	81.1	*64.0*
82.5°	1645.9	22.8	51.2	62.6	*51.2*
85°	697.0	18.5	34.1	51.2	*42.7*
87.5°	130.9	15.6	27.0	41.3	*37.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)