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: P197402

Luminaire Tested: **8WSL-LD2-160-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Test Information

Test Method:	LM-79-08
Report Number:	P197402
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	8WSL-LD2-160-UNV-L835-CD2-U
Description:	8FT. Linear Wavestream System, L835
Light Source:	(476) 3500K CCT, 80 CRI LEDS
	EL236N0119D835
Ballast/Driver:	OSRAM
	OT85W1202772A0DIML

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15612.0 lumens
Efficiency:	N/A
Efficacy:	102.1 lumens/watt
Spacing Criteria (0/90/45):	1.32 / 1.18 / 1.35
Luminous Opening:	Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type:	Direct

Input Watts (W):	152.9
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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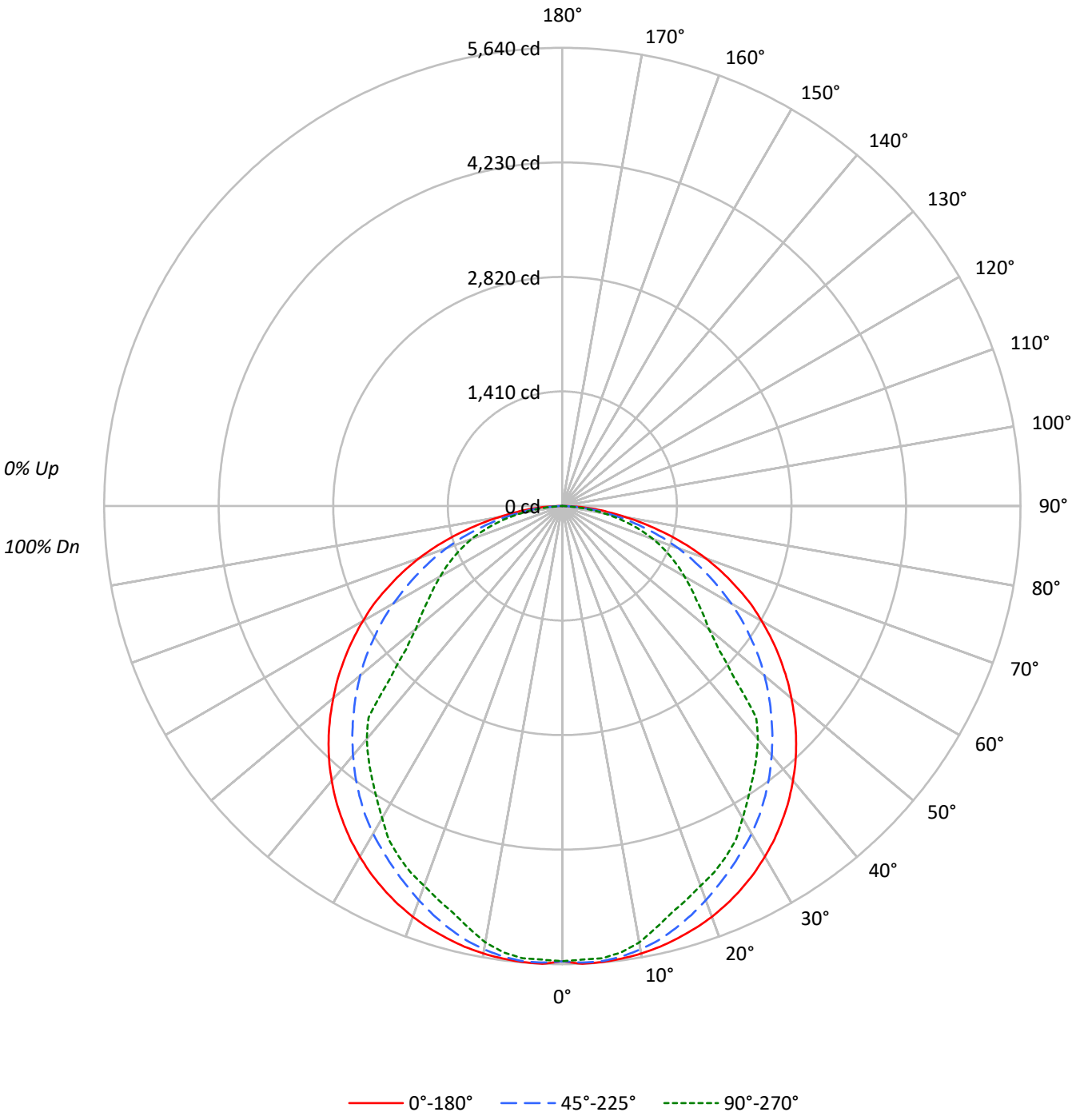
Luminous Intensity Polar Plot



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15874	15874	15874
5°	16022	15993	15890
10°	16089	15940	15688
15°	16146	15782	15207
20°	16223	15569	14993
25°	16272	15368	14883
30°	16302	15238	14512
35°	16324	15056	14127
40°	16329	14820	13846
45°	16304	14566	11980
50°	16228	14316	10379
55°	16146	13978	9948
60°	16064	13577	9831
65°	15855	13085	9831
70°	15528	12576	9838
75°	14528	11588	9553
80°	12975	10026	8510
85°	11918	7722	6211

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.4	3.4
10°-20°	1510.8	9.7
20°-30°	2277.5	14.6
30°-40°	2734.4	17.5
40°-50°	2785.0	17.8
50°-60°	2444.1	15.7
60°-70°	1901.2	12.2
70°-80°	1130.7	7.2
80°-90°	295.9	1.9
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°	4320.6	27.7
0°-40°	7055.1	45.2
0°-60°	12284.2	78.7
0°-90°	15612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5604	5604	5604	5604	5604	
5°	5635	5583	5625	5604	5588	536
15°	5506	5428	5382	5248	5186	1556
25°	5206	5087	4917	4788	4762	2401
35°	4721	4571	4354	4147	4085	2955
45°	4070	3936	3636	3357	2990	3138
55°	3269	3171	2830	2267	2014	2924
65°	2366	2273	1952	1539	1467	2343
75°	1327	1260	1059	857	873	1403
85°	367	325	238	191	191	402
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*5603.9*	5603.9	5603.9	5603.9	5603.9
2.5°	*5640.1*	*5583.3*	*5624.6*	*5614.3*	*5588.4*
5°	*5634.9*	5583.3	5624.6	5603.9	5588.4
7.5°	*5619.4*	5567.8	5593.6	5562.6	5541.9
10°	*5593.6*	5536.8	5541.9	5490.3	5454.1
12.5°	*5557.4*	5490.3	5474.8	5371.5	5319.9
15°	*5505.8*	5428.3	5381.8	5247.5	5185.6
17.5°	*5449.0*	5361.2	5278.5	5128.8	5082.3
20°	*5381.8*	5278.5	5164.9	5010.0	4973.8
22.5°	*5299.2*	5190.7	5040.9	4901.5	4880.8
25°	*5206.2*	5087.4	4917.0	4787.9	4762.0
27.5°	*5102.9*	4963.5	4787.9	4658.7	4627.8
30°	*4984.1*	4839.5	4658.7	4509.0	4436.7
32.5°	*4860.2*	4710.4	4514.1	4323.0	4255.9
35°	*4720.7*	4570.9	4354.0	4147.4	4085.4
37.5°	*4576.1*	4421.2	4188.7	3971.8	3920.2
40°	*4416.0*	4266.2	4008.0	3796.2	3744.6
42.5°	*4250.7*	4106.1	3827.2	3615.4	3532.8
45°	*4069.9*	3935.7	3636.1	3357.2	2990.5
47.5°	*3878.8*	3754.9	3445.0	3031.8	2608.3
50°	*3682.6*	3568.9	3248.7	2742.6	2355.2
52.5°	*3481.1*	3377.8	3047.3	2489.5	2179.6
55°	*3269.4*	3171.3	2830.4	2267.4	2014.3
57.5°	*3057.6*	2959.5	2623.8	2066.0	1874.9
60°	*2835.5*	2742.6	2396.5	1880.0	1735.4
62.5°	*2618.6*	2515.3	2174.4	1709.6	1606.3
65°	*2365.5*	2272.6	1952.3	1539.1	1466.8
67.5°	*2127.9*	2029.8	1735.4	1373.9	1332.5
70°	*1874.9*	1776.7	1518.5	1203.4	1187.9
72.5°	*1606.3*	1528.8	1291.2	1038.1	1027.8
75°	*1327.4*	1260.2	1058.8	857.4	872.9
77.5°	*1053.6*	1012.3	836.7	686.9	697.3
80°	*795.4*	764.4	614.6	511.3	521.7
82.5°	*568.1*	542.3	418.4	340.9	340.9
85°	*366.7*	325.4	237.6	191.1	191.1
87.5°	*144.6*	118.8	72.3	20.7	10.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)