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: P197358

Luminaire Tested: **8WSL-LD2-65-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Test Information

Test Method:	LM-79-08
Report Number:	P197358
	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-LD2-65-UNV-L835-CD1-U
Description:	8FT. Linear Wavestream System, L835
Light Source:	(476) 3500K CCT, 80 CRI LEDS
	EL236N0119D835
Ballast/Driver:	OSRAM
	OT50W

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6536.0 lumens
Efficiency:	N/A
Efficacy:	113.5 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):	57.6
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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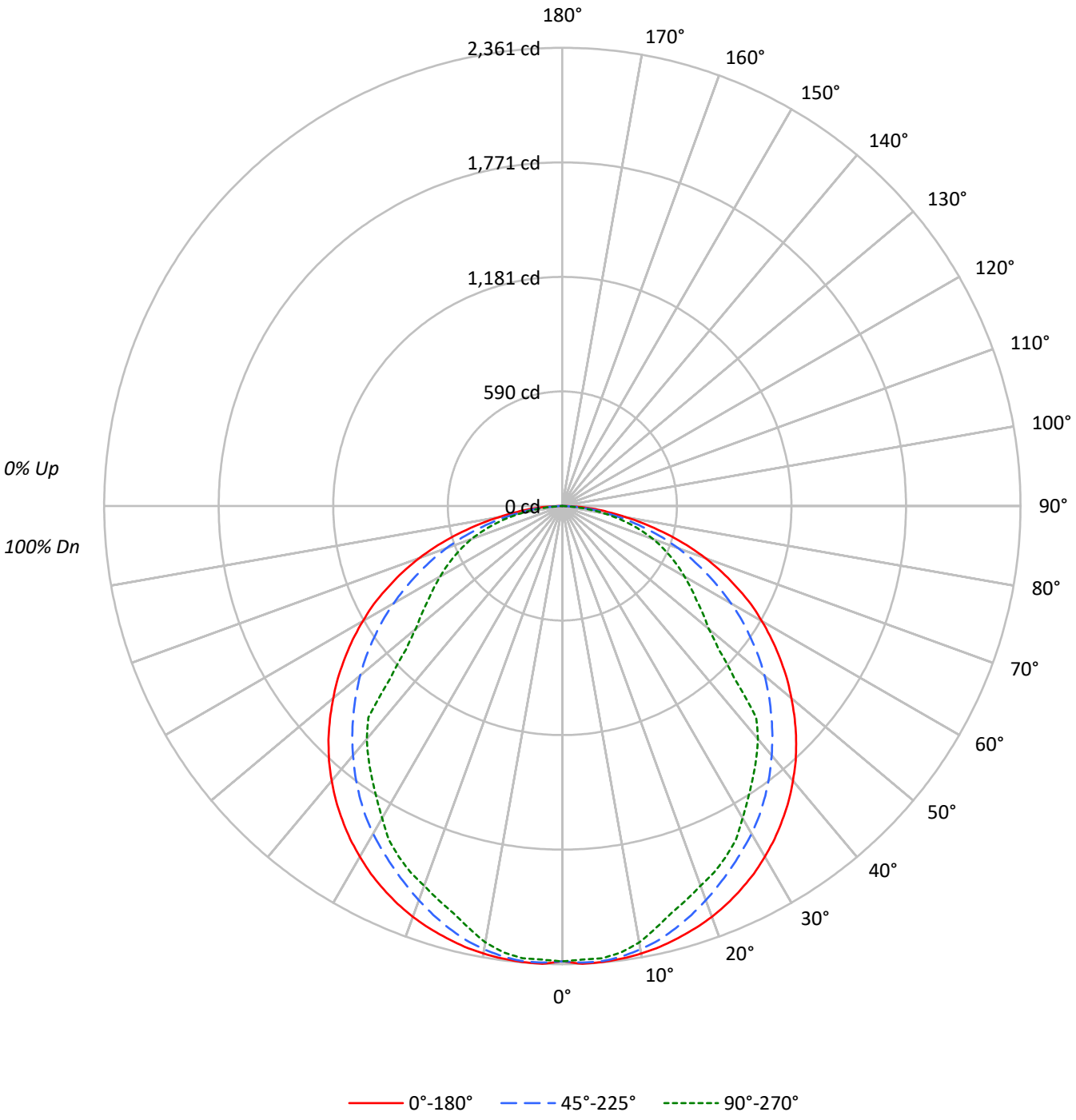
Luminous Intensity Polar Plot



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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°	6646	6646	6646
5°	6708	6695	6652
10°	6736	6673	6568
15°	6759	6607	6366
20°	6792	6518	6277
25°	6812	6434	6231
30°	6825	6379	6075
35°	6834	6303	5915
40°	6836	6204	5797
45°	6826	6098	5015
50°	6794	5994	4345
55°	6759	5852	4165
60°	6725	5684	4116
65°	6638	5478	4116
70°	6501	5265	4119
75°	6082	4852	3999
80°	5432	4197	3563
85°	4989	3234	2600

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.4
10°-20°	632.5	9.7
20°-30°	953.5	14.6
30°-40°	1144.8	17.5
40°-50°	1165.9	17.8
50°-60°	1023.2	15.7
60°-70°	795.9	12.2
70°-80°	473.4	7.2
80°-90°	123.9	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°	1808.8	27.7
0°-40°	2953.6	45.2
0°-60°	5142.8	78.7
0°-90°	6536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2359	2337	2355	2346	2340	225
15°	2305	2273	2253	2197	2171	651
25°	2180	2130	2058	2004	1994	1005
35°	1976	1914	1823	1736	1710	1237
45°	1704	1648	1522	1406	1252	1314
55°	1369	1328	1185	949	843	1224
65°	990	951	817	644	614	981
75°	556	528	443	359	365	588
85°	154	136	100	80	80	168
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2346.1*	2346.1	2346.1	2346.1	2346.1
2.5°	*2361.2*	*2337.4*	*2354.7*	*2350.4*	*2339.6*
5°	*2359.1*	2337.4	2354.7	2346.1	2339.6
7.5°	*2352.6*	2331.0	2341.8	2328.8	2320.1
10°	*2341.8*	2318.0	2320.1	2298.5	2283.4
12.5°	*2326.6*	2298.5	2292.0	2248.8	2227.2
15°	*2305.0*	2272.6	2253.1	2196.9	2170.9
17.5°	*2281.2*	2244.5	2209.9	2147.2	2127.7
20°	*2253.1*	2209.9	2162.3	2097.4	2082.3
22.5°	*2218.5*	2173.1	2110.4	2052.0	2043.4
25°	*2179.6*	2129.9	2058.5	2004.5	1993.6
27.5°	*2136.4*	2078.0	2004.5	1950.4	1937.4
30°	*2086.6*	2026.1	1950.4	1887.7	1857.4
32.5°	*2034.7*	1972.0	1889.8	1809.8	1781.7
35°	*1976.3*	1913.6	1822.8	1736.3	1710.4
37.5°	*1915.8*	1850.9	1753.6	1662.8	1641.2
40°	*1848.8*	1786.1	1677.9	1589.3	1567.7
42.5°	*1779.6*	1719.0	1602.3	1513.6	1479.0
45°	*1703.9*	1647.7	1522.3	1405.5	1252.0
47.5°	*1623.9*	1572.0	1442.3	1269.3	1092.0
50°	*1541.7*	1494.1	1360.1	1148.2	986.0
52.5°	*1457.4*	1414.1	1275.8	1042.2	912.5
55°	*1368.7*	1327.7	1184.9	949.2	843.3
57.5°	*1280.1*	1239.0	1098.4	864.9	784.9
60°	*1187.1*	1148.2	1003.3	787.1	726.5
62.5°	*1096.3*	1053.0	910.3	715.7	672.5
65°	*990.3*	951.4	817.3	644.4	614.1
67.5°	*890.9*	849.8	726.5	575.2	557.9
70°	*784.9*	743.8	635.7	503.8	497.3
72.5°	*672.5*	640.0	540.6	434.6	430.3
75°	*555.7*	527.6	443.3	358.9	365.4
77.5°	*441.1*	423.8	350.3	287.6	291.9
80°	*333.0*	320.0	257.3	214.1	218.4
82.5°	*237.9*	227.0	175.1	142.7	142.7
85°	*153.5*	136.2	99.5	80.0	80.0
87.5°	*60.5*	49.7	30.3	8.6	4.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)