

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: P197363

Luminaire Tested: **8WSL-LD2-70-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197363
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-LD2-70-UNV-L840-CD1-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

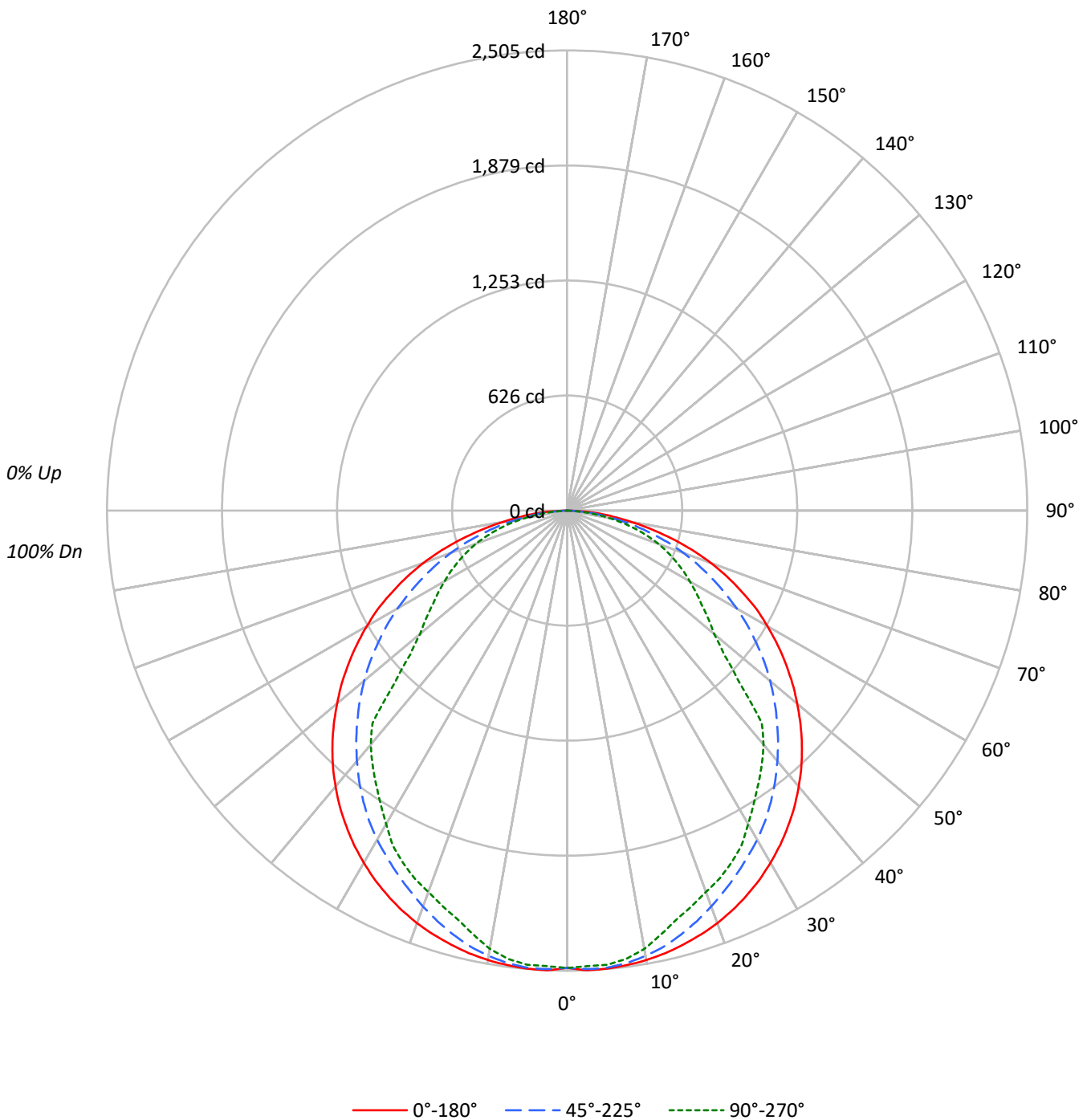
Lumens per Lamp: N/A
Luminaire Lumens: 6934.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 63.6
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

TEST NUMBER: P197363

CATALOG NUMBER: 8WSL-LD2-70-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P197363

CATALOG NUMBER: 8WSL-LD2-70-UNV-L840-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	7050	7050	7050
5°	7116	7103	7058
10°	7146	7080	6968
15°	7171	7010	6754
20°	7205	6915	6659
25°	7227	6826	6610
30°	7241	6768	6445
35°	7250	6687	6274
40°	7252	6582	6150
45°	7241	6470	5321
50°	7208	6359	4610
55°	7171	6208	4418
60°	7135	6030	4367
65°	7042	5812	4367
70°	6896	5585	4370
75°	6453	5147	4243
80°	5763	4453	3780
85°	5294	3429	2759



TEST NUMBER: P197363

CATALOG NUMBER: 8WSL-LD2-70-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	3.4
10°-20°	671.0	9.7
20°-30°	1011.5	14.6
30°-40°	1214.5	17.5
40°-50°	1236.9	17.8
50°-60°	1085.5	15.7
60°-70°	844.4	12.2
70°-80°	502.2	7.2
80°-90°	131.4	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°	1919.0	27.7
0°-40°	3133.5	45.2
0°-60°	5456.0	78.7
0°-90°	6934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2489	2489	2489	2489	2489	
5°	2503	2480	2498	2489	2482	238
15°	2445	2411	2390	2331	2303	691
25°	2312	2260	2184	2126	2115	1066
35°	2097	2030	1934	1842	1814	1312
45°	1808	1748	1615	1491	1328	1394
55°	1452	1408	1257	1007	895	1298
65°	1051	1009	867	684	652	1041
75°	590	560	470	381	388	623
85°	163	144	106	85	85	178
90°	0	0	0	0	0	



TEST NUMBER: P197363

CATALOG NUMBER: 8WSL-LD2-70-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2489.0	2489.0	2489.0	2489.0	2489.0
2.5°	2505.0	2479.8	2498.1	2493.5	2482.1
5°	2502.7	2479.8	2498.1	2489.0	2482.1
7.5°	2495.8	2472.9	2484.4	2470.6	2461.4
10°	2484.4	2459.1	2461.4	2438.5	2422.4
12.5°	2468.3	2438.5	2431.6	2385.7	2362.8
15°	2445.4	2411.0	2390.3	2330.7	2303.1
17.5°	2420.1	2381.1	2344.4	2277.9	2257.3
20°	2390.3	2344.4	2294.0	2225.2	2209.1
22.5°	2353.6	2305.4	2238.9	2177.0	2167.8
25°	2312.3	2259.6	2183.9	2126.5	2115.0
27.5°	2266.4	2204.5	2126.5	2069.2	2055.4
30°	2213.7	2149.4	2069.2	2002.6	1970.5
32.5°	2158.6	2092.1	2004.9	1920.1	1890.2
35°	2096.7	2030.2	1933.8	1842.1	1814.5
37.5°	2032.5	1963.6	1860.4	1764.1	1741.1
40°	1961.3	1894.8	1780.1	1686.1	1663.1
42.5°	1887.9	1823.7	1699.8	1605.8	1569.1
45°	1807.6	1748.0	1615.0	1491.1	1328.2
47.5°	1722.8	1667.7	1530.1	1346.6	1158.5
50°	1635.6	1585.1	1442.9	1218.1	1046.1
52.5°	1546.1	1500.3	1353.4	1105.7	968.1
55°	1452.1	1408.5	1257.1	1007.1	894.6
57.5°	1358.0	1314.4	1165.3	917.6	832.7
60°	1259.4	1218.1	1064.4	835.0	770.8
62.5°	1163.0	1117.2	965.8	759.3	713.4
65°	1050.6	1009.3	867.1	683.6	651.5
67.5°	945.1	901.5	770.8	610.2	591.8
70°	832.7	789.1	674.4	534.5	527.6
72.5°	713.4	679.0	573.5	461.1	456.5
75°	589.6	559.7	470.3	380.8	387.7
77.5°	468.0	449.6	371.6	305.1	309.7
80°	353.3	339.5	273.0	227.1	231.7
82.5°	252.3	240.9	185.8	151.4	151.4
85°	162.9	144.5	105.5	84.9	84.9
87.5°	64.2	52.8	32.1	9.2	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)