

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: P197357

Luminaire Tested: **8WSL-LD2-65-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197357
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-L830-CD1-U
Description: 8FT. Linear Wavestream System, L830
Light Source: (476) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT50W

Summary

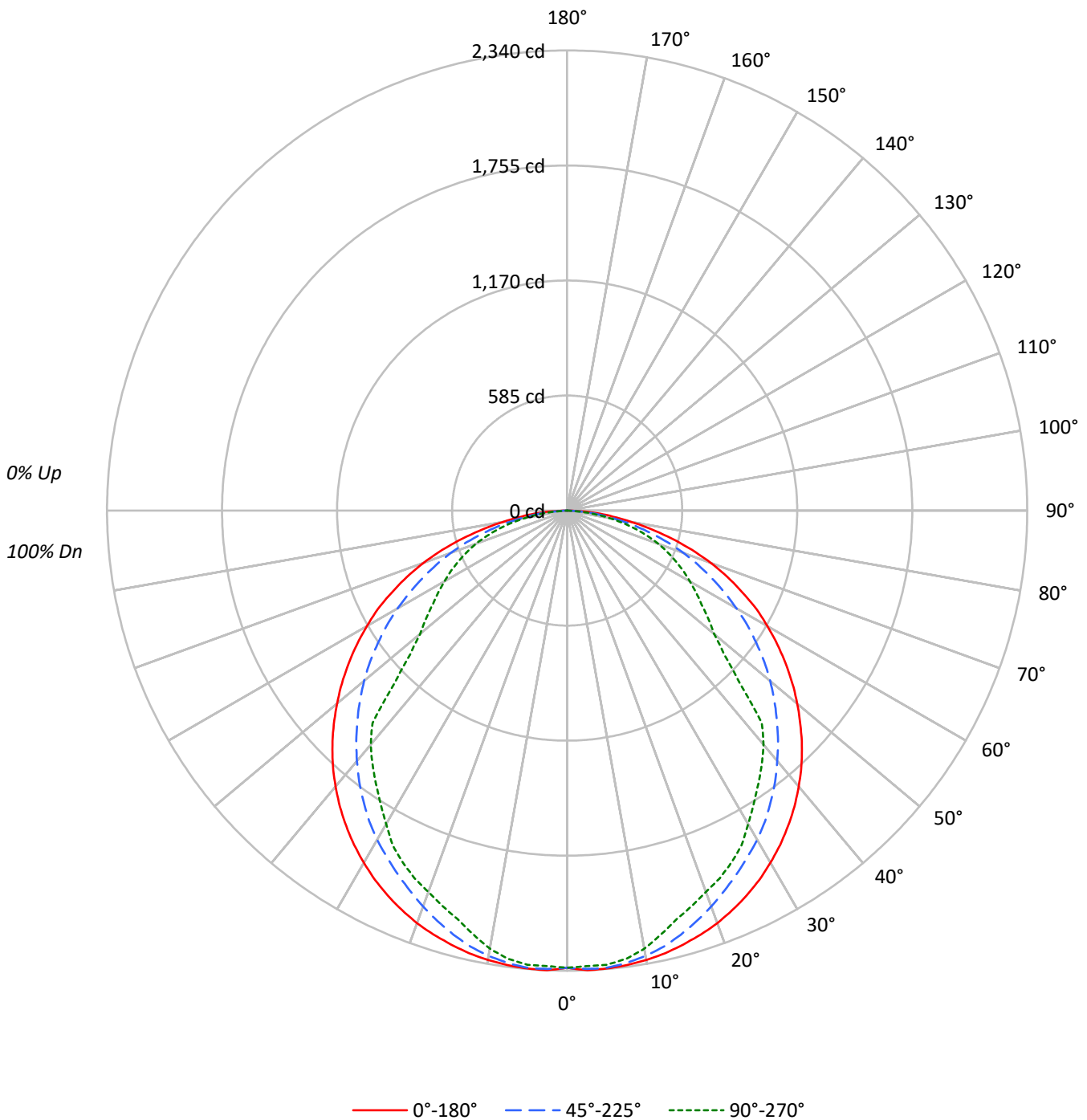
Lumens per Lamp: N/A
Luminaire Lumens: 6476.4 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P197357

CATALOG NUMBER: 8WSL-LD2-65-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P197357

CATALOG NUMBER: 8WSL-LD2-65-UNV-L830-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°	6585	6585	6585
5°	6647	6635	6592
10°	6674	6613	6508
15°	6698	6547	6308
20°	6730	6459	6220
25°	6750	6375	6174
30°	6763	6321	6020
35°	6772	6246	5861
40°	6774	6148	5744
45°	6764	6043	4970
50°	6732	5939	4305
55°	6698	5798	4127
60°	6664	5632	4078
65°	6577	5428	4078
70°	6442	5217	4081
75°	6026	4807	3963
80°	5383	4160	3530
85°	4943	3205	2577



TEST NUMBER: P197357

CATALOG NUMBER: 8WSL-LD2-65-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	3.4
10°-20°	626.7	9.7
20°-30°	944.8	14.6
30°-40°	1134.3	17.5
40°-50°	1155.3	17.8
50°-60°	1013.9	15.7
60°-70°	788.7	12.2
70°-80°	469.1	7.2
80°-90°	122.8	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°	1792.4	27.7
0°-40°	2926.7	45.2
0°-60°	5095.9	78.7
0°-90°	6476.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6476.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2338	2316	2333	2325	2318	223
15°	2284	2252	2233	2177	2151	645
25°	2160	2110	2040	1986	1976	996
35°	1958	1896	1806	1720	1695	1226
45°	1688	1633	1508	1393	1241	1302
55°	1356	1316	1174	941	836	1213
65°	981	943	810	638	608	972
75°	551	523	439	356	362	582
85°	152	135	99	79	79	167
90°	0	0	0	0	0	



TEST NUMBER: P197357

CATALOG NUMBER: 8WSL-LD2-65-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2324.7	2324.7	2324.7	2324.7	2324.7
2.5°	2339.7	2316.1	2333.3	2329.0	2318.3
5°	2337.6	2316.1	2333.3	2324.7	2318.3
7.5°	2331.1	2309.7	2320.4	2307.6	2299.0
10°	2320.4	2296.8	2299.0	2277.6	2262.6
12.5°	2305.4	2277.6	2271.1	2228.3	2206.9
15°	2284.0	2251.9	2232.6	2176.9	2151.2
17.5°	2260.4	2224.0	2189.7	2127.6	2108.3
20°	2232.6	2189.7	2142.6	2078.3	2063.3
22.5°	2198.3	2153.3	2091.2	2033.3	2024.7
25°	2159.7	2110.4	2039.7	1986.2	1975.5
27.5°	2116.9	2059.0	1986.2	1932.6	1919.8
30°	2067.6	2007.6	1932.6	1870.5	1840.5
32.5°	2016.2	1954.0	1872.6	1793.3	1765.5
35°	1958.3	1896.2	1806.2	1720.5	1694.8
37.5°	1898.3	1834.1	1737.6	1647.6	1626.2
40°	1831.9	1769.8	1662.6	1574.8	1553.4
42.5°	1763.3	1703.4	1587.7	1499.8	1465.5
45°	1688.4	1632.6	1508.4	1392.7	1240.6
47.5°	1609.1	1557.7	1429.1	1257.7	1082.0
50°	1527.7	1480.5	1347.7	1137.7	977.0
52.5°	1444.1	1401.2	1264.1	1032.7	904.2
55°	1356.3	1315.5	1174.1	940.6	835.6
57.5°	1268.4	1227.7	1088.4	857.0	777.8
60°	1176.3	1137.7	994.2	779.9	719.9
62.5°	1086.3	1043.4	902.0	709.2	666.3
65°	981.3	942.7	809.9	638.5	608.5
67.5°	882.7	842.0	719.9	569.9	552.8
70°	777.8	737.0	629.9	499.2	492.8
72.5°	666.3	634.2	535.6	430.7	426.4
75°	550.6	522.8	439.2	355.7	362.1
77.5°	437.1	419.9	347.1	285.0	289.2
80°	330.0	317.1	255.0	212.1	216.4
82.5°	235.7	225.0	173.5	141.4	141.4
85°	152.1	135.0	98.6	79.3	79.3
87.5°	60.0	49.3	30.0	8.6	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)