

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: CORELITE

Report Number: P385201

Luminaire Tested: **24ID-55-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

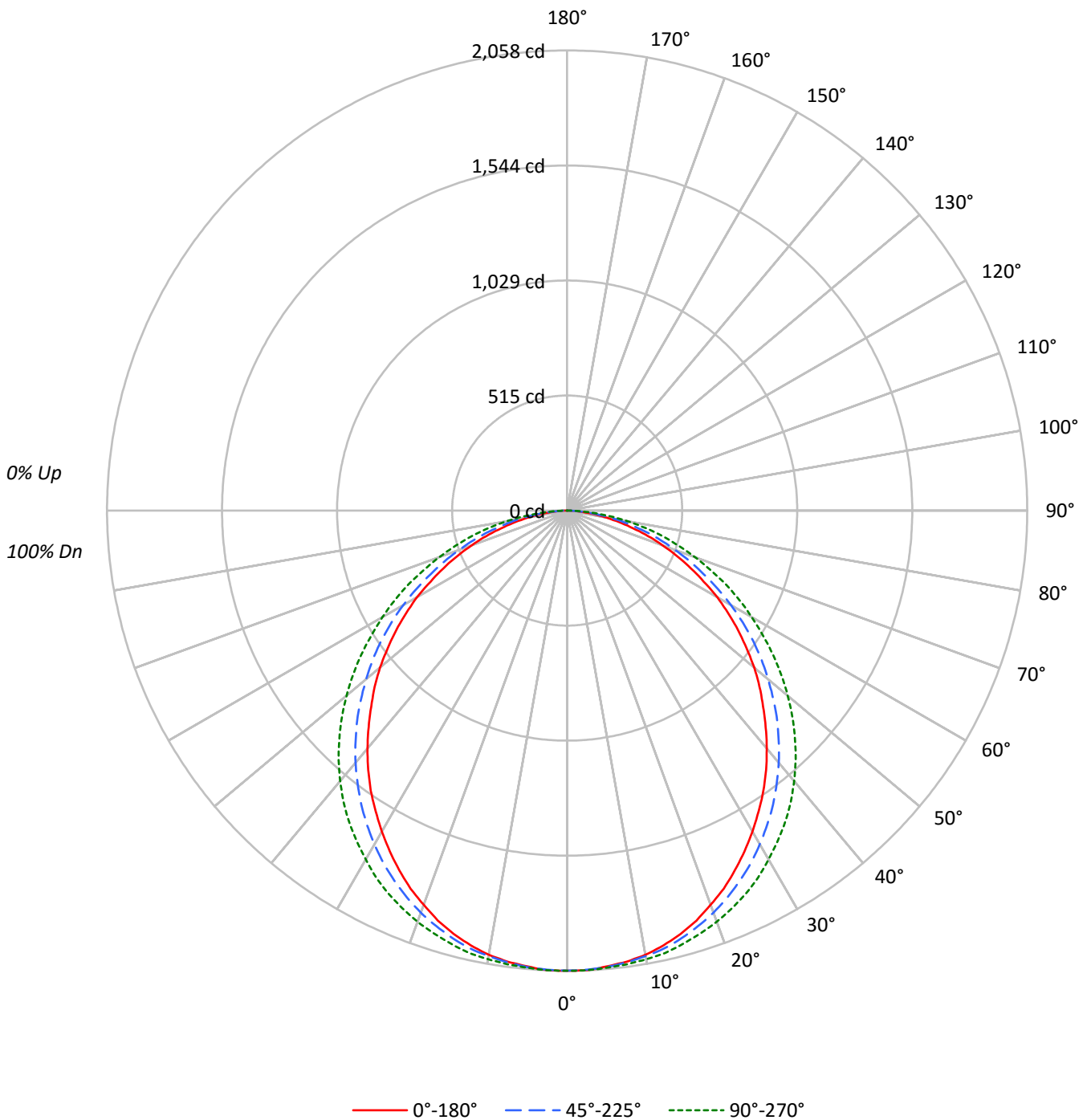
Lumens per Lamp: N/A
Luminaire Lumens: 5713.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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



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Luminous Intensity Polar Plot





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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	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2769	2769	2769
5°	2764	2768	2772
10°	2757	2764	2784
15°	2730	2758	2794
20°	2687	2740	2802
25°	2636	2713	2807
30°	2575	2678	2799
35°	2514	2637	2793
40°	2440	2587	2774
45°	2358	2528	2742
50°	2287	2456	2697
55°	2190	2380	2637
60°	2086	2280	2567
65°	1945	2147	2496
70°	1792	2018	2393
75°	1588	1873	2293
80°	1340	1675	2122
85°	979	1291	1690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	3.4
10°-20°	558.9	9.8
20°-30°	842.9	14.8
30°-40°	1006.3	17.6
40°-50°	1028.4	18.0
50°-60°	911.9	16.0
60°-70°	679.8	11.9
70°-80°	388.4	6.8
80°-90°	102.4	1.8
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°	1596.5	27.9
0°-40°	2602.8	45.6
0°-60°	4543.2	79.5
0°-90°	5713.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5713.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2046	2046	2049	2049	2052	195
15°	1960	1966	1980	1997	2006	552
25°	1776	1790	1827	1868	1891	817
35°	1530	1551	1605	1669	1700	956
45°	1239	1265	1329	1401	1441	958
55°	934	951	1014	1087	1124	834
65°	611	625	674	744	784	606
75°	306	320	360	415	441	326
85°	63	66	84	104	110	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.9	2057.9	2057.9	2057.9	2057.9
2.5°	2057.9	2055.0	2055.0	2055.0	2057.9
5°	2046.4	2046.4	2049.3	2049.3	2052.1
7.5°	2034.9	2034.9	2037.7	2040.6	2046.4
10°	2017.6	2017.6	2023.3	2032.0	2037.7
12.5°	1991.6	1994.5	2006.0	2017.6	2026.2
15°	1959.9	1965.7	1980.1	1997.4	2006.0
17.5°	1922.4	1928.2	1948.4	1971.4	1983.0
20°	1876.3	1887.9	1913.8	1942.6	1957.0
22.5°	1830.2	1841.7	1873.4	1908.0	1925.3
25°	1775.5	1789.9	1827.3	1867.7	1890.7
27.5°	1717.8	1735.1	1778.3	1824.5	1850.4
30°	1657.3	1677.5	1723.6	1775.5	1801.4
32.5°	1593.9	1614.0	1665.9	1723.6	1752.4
35°	1530.5	1550.6	1605.4	1668.8	1700.5
37.5°	1461.3	1481.5	1539.1	1608.3	1642.9
40°	1389.2	1412.3	1472.8	1542.0	1579.5
42.5°	1314.3	1340.2	1400.8	1475.7	1513.2
45°	1239.4	1265.3	1328.7	1400.8	1441.1
47.5°	1167.3	1187.5	1250.9	1325.8	1366.2
50°	1092.4	1109.7	1173.1	1248.0	1288.4
52.5°	1011.7	1034.7	1095.2	1170.2	1207.7
55°	933.8	951.1	1014.5	1086.6	1124.1
57.5°	853.1	870.4	931.0	1003.0	1037.6
60°	775.3	792.6	847.4	919.4	954.0
62.5°	688.9	706.1	760.9	835.8	870.4
65°	611.0	625.4	674.4	743.6	784.0
67.5°	533.2	547.6	593.7	660.0	691.7
70°	455.4	466.9	513.0	573.6	608.2
72.5°	380.5	392.0	438.1	492.9	521.7
75°	305.5	319.9	360.3	415.0	441.0
77.5°	236.3	250.8	285.3	334.3	357.4
80°	172.9	184.5	216.2	253.6	273.8
82.5°	115.3	123.9	147.0	178.7	193.1
85°	63.4	66.3	83.6	103.8	109.5
87.5°	25.9	25.9	31.7	34.6	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)