

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: P385093

Luminaire Tested: **14ID-55-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385093
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: 14ID-55-L850-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

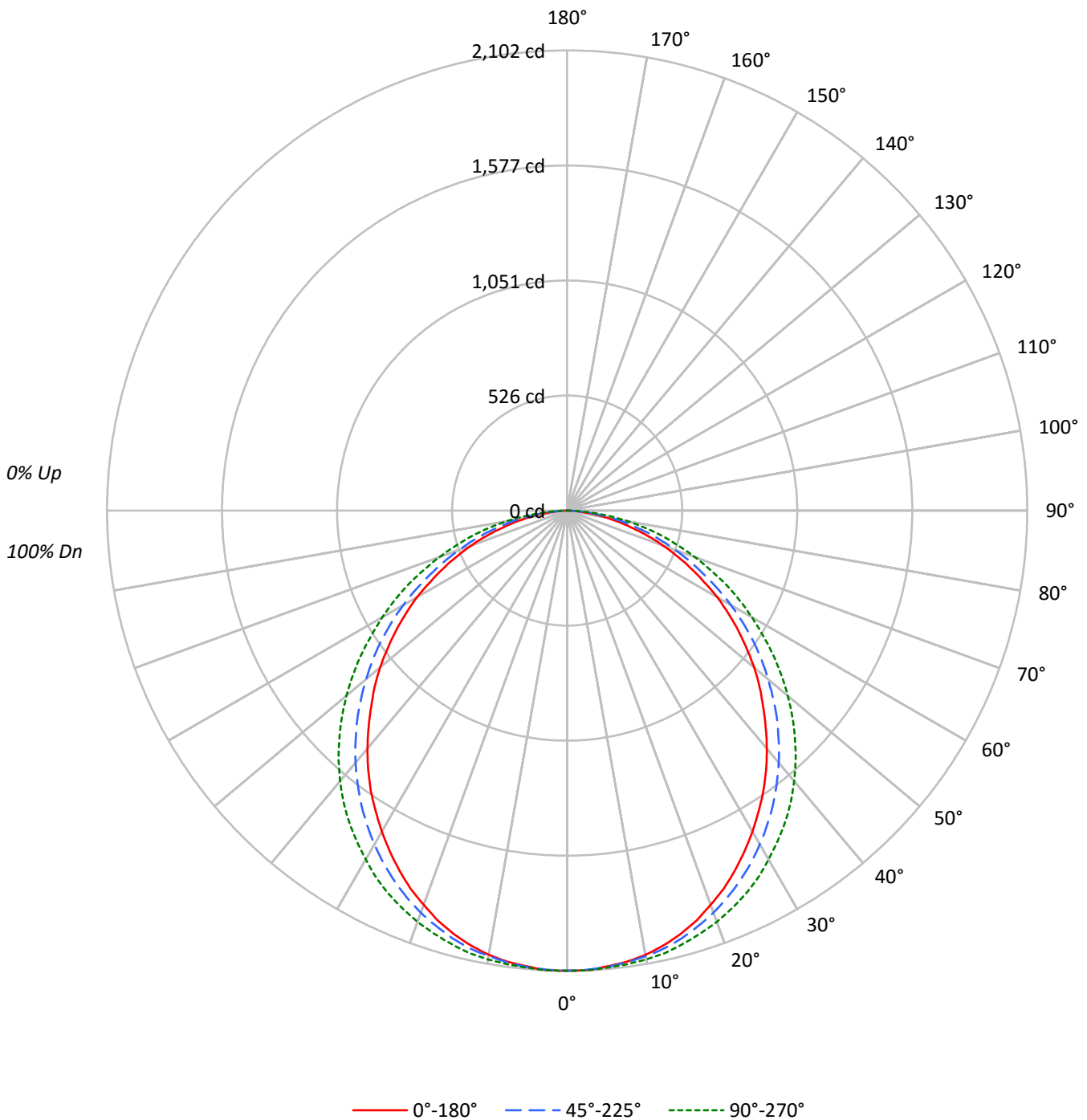
Lumens per Lamp: N/A
Luminaire Lumens: 5836.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.2
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			
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°	5656	5656	5656
5°	5646	5654	5662
10°	5631	5647	5687
15°	5577	5634	5708
20°	5488	5598	5724
25°	5385	5542	5734
30°	5260	5470	5717
35°	5135	5387	5706
40°	4985	5285	5667
45°	4818	5165	5602
50°	4671	5016	5509
55°	4475	4862	5386
60°	4262	4658	5245
65°	3974	4387	5099
70°	3659	4123	4888
75°	3245	3826	4683
80°	2737	3422	4334
85°	2001	2637	3455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.4
10°-20°	570.8	9.8
20°-30°	860.9	14.8
30°-40°	1027.8	17.6
40°-50°	1050.5	18.0
50°-60°	931.5	16.0
60°-70°	694.4	11.9
70°-80°	396.7	6.8
80°-90°	104.6	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°	1630.7	27.9
0°-40°	2658.6	45.6
0°-60°	4640.5	79.5
0°-90°	5836.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5836.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2090	2090	2093	2093	2096	199
15°	2002	2008	2022	2040	2049	564
25°	1814	1828	1866	1908	1931	835
35°	1563	1584	1640	1705	1737	977
45°	1266	1292	1357	1431	1472	978
55°	954	972	1036	1110	1148	852
65°	624	639	689	760	801	619
75°	312	327	368	424	450	333
85°	65	68	85	106	112	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2102.0	2102.0	2102.0	2102.0	2102.0
2.5°	2102.0	2099.1	2099.1	2099.1	2102.0
5°	2090.2	2090.2	2093.2	2093.2	2096.1
7.5°	2078.4	2078.4	2081.4	2084.3	2090.2
10°	2060.8	2060.8	2066.7	2075.5	2081.4
12.5°	2034.3	2037.2	2049.0	2060.8	2069.6
15°	2001.9	2007.8	2022.5	2040.2	2049.0
17.5°	1963.6	1969.5	1990.1	2013.7	2025.5
20°	1916.5	1928.3	1954.8	1984.2	1999.0
22.5°	1869.4	1881.2	1913.6	1948.9	1966.6
25°	1813.5	1828.2	1866.5	1907.7	1931.2
27.5°	1754.6	1772.3	1816.4	1863.5	1890.0
30°	1692.8	1713.4	1760.5	1813.5	1840.0
32.5°	1628.0	1648.6	1701.6	1760.5	1789.9
35°	1563.2	1583.9	1639.8	1704.6	1736.9
37.5°	1492.6	1513.2	1572.1	1642.7	1678.1
40°	1419.0	1442.5	1504.4	1575.0	1613.3
42.5°	1342.5	1368.9	1430.8	1507.3	1545.6
45°	1265.9	1292.4	1357.2	1430.8	1472.0
47.5°	1192.3	1212.9	1277.7	1354.2	1395.4
50°	1115.8	1133.4	1198.2	1274.7	1316.0
52.5°	1033.3	1056.9	1118.7	1195.3	1233.5
55°	953.8	971.5	1036.3	1109.9	1148.1
57.5°	871.4	889.1	950.9	1024.5	1059.8
60°	791.9	809.6	865.5	939.1	974.5
62.5°	703.6	721.3	777.2	853.8	889.1
65°	624.1	638.8	688.9	759.5	800.8
67.5°	544.6	559.4	606.5	674.2	706.6
70°	465.1	476.9	524.0	585.9	621.2
72.5°	388.6	400.4	447.5	503.4	532.9
75°	312.1	326.8	368.0	423.9	450.4
77.5°	241.4	256.1	291.5	341.5	365.1
80°	176.6	188.4	220.8	259.1	279.7
82.5°	117.8	126.6	150.1	182.5	197.2
85°	64.8	67.7	85.4	106.0	111.9
87.5°	26.5	26.5	32.4	35.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)