

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: P384025

Luminaire Tested: **24ID-55-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

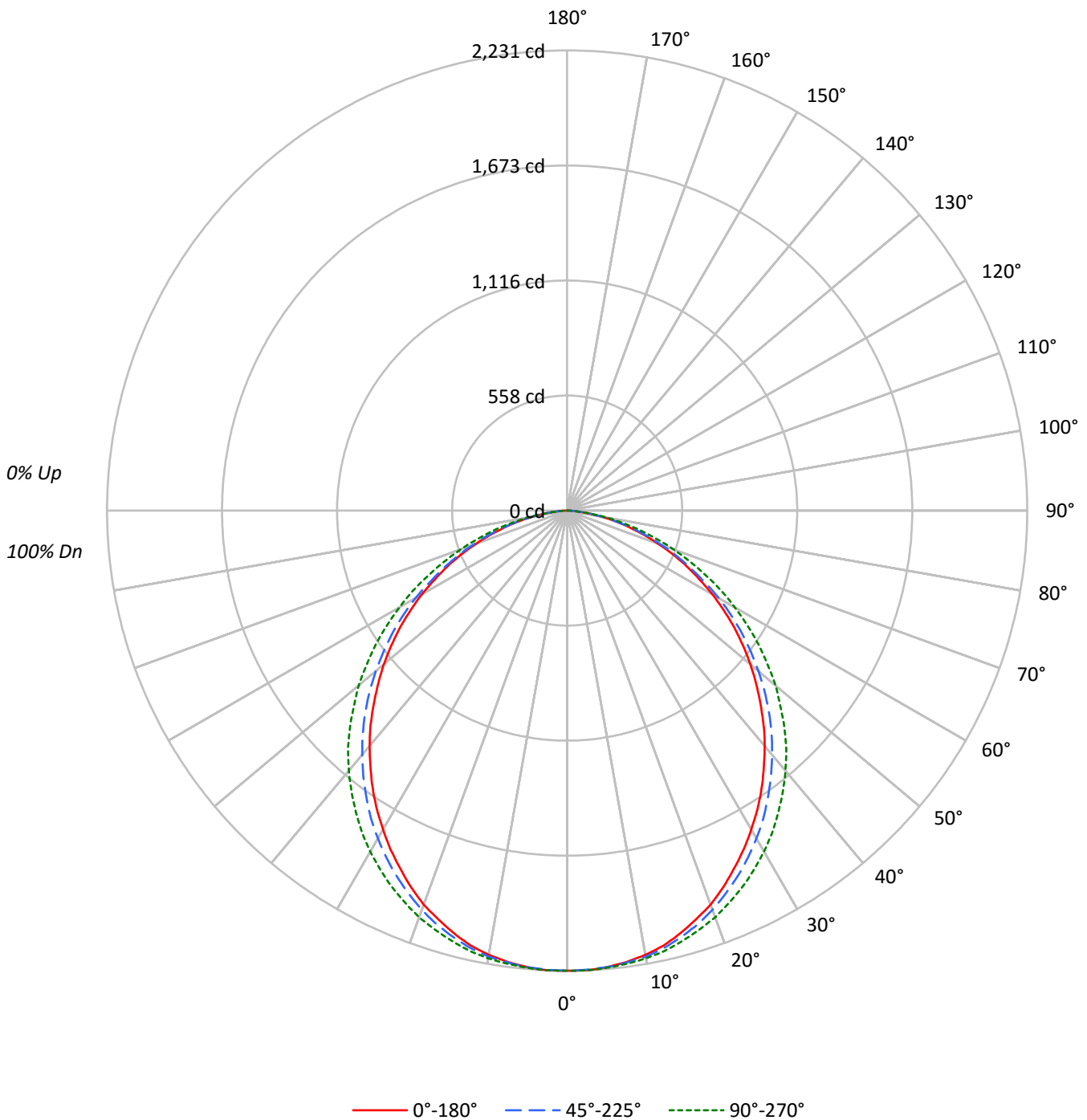
Lumens per Lamp: N/A
Luminaire Lumens: 5889.2 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3002	3002	3002
5°	3001	3001	3005
10°	2987	3000	3012
15°	2955	2980	3009
20°	2911	2949	3004
25°	2843	2905	2988
30°	2774	2852	2966
35°	2700	2787	2932
40°	2617	2716	2892
45°	2521	2633	2836
50°	2427	2533	2761
55°	2319	2423	2658
60°	2192	2287	2525
65°	2039	2104	2358
70°	1846	1915	2159
75°	1611	1672	1887
80°	1303	1327	1486
85°	775	866	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	3.6
10°-20°	603.6	10.2
20°-30°	903.0	15.3
30°-40°	1066.8	18.1
40°-50°	1076.5	18.3
50°-60°	934.8	15.9
60°-70°	670.4	11.4
70°-80°	349.2	5.9
80°-90°	73.7	1.3
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°	1717.8	29.2
0°-40°	2784.6	47.3
0°-60°	4795.9	81.4
0°-90°	5889.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5889.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2222	2219	2222	2222	2225	211
15°	2122	2125	2139	2154	2160	598
25°	1915	1927	1956	1995	2012	882
35°	1644	1656	1697	1759	1785	1028
45°	1325	1340	1384	1455	1490	1023
55°	989	997	1033	1101	1133	883
65°	640	637	661	711	741	633
75°	310	307	322	345	363	331
85°	50	56	56	50	47	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.9	2230.9	2230.9	2230.9	2230.9
2.5°	2230.9	2228.0	2228.0	2228.0	2230.9
5°	2222.1	2219.1	2222.1	2222.1	2225.0
7.5°	2207.3	2204.3	2210.3	2213.2	2216.2
10°	2186.6	2186.6	2195.5	2201.4	2204.3
12.5°	2160.1	2160.1	2171.9	2180.7	2186.6
15°	2121.7	2124.7	2139.4	2154.2	2160.1
17.5°	2077.5	2086.3	2104.0	2124.7	2130.6
20°	2033.2	2039.1	2059.8	2086.3	2098.1
22.5°	1977.1	1986.0	2009.6	2045.0	2056.8
25°	1915.2	1927.0	1956.5	1994.8	2012.5
27.5°	1853.2	1862.0	1897.5	1941.7	1962.4
30°	1785.3	1797.1	1835.5	1885.6	1909.3
32.5°	1717.4	1726.3	1770.6	1823.7	1850.2
35°	1643.7	1655.5	1696.8	1758.8	1785.3
37.5°	1566.9	1581.7	1623.0	1687.9	1717.4
40°	1490.2	1499.1	1546.3	1611.2	1646.6
42.5°	1410.5	1422.4	1466.6	1537.4	1572.8
45°	1325.0	1339.7	1384.0	1454.8	1490.2
47.5°	1242.3	1257.1	1298.4	1369.2	1401.7
50°	1159.7	1168.6	1209.9	1280.7	1319.1
52.5°	1074.1	1083.0	1121.4	1189.2	1224.6
55°	988.6	997.4	1032.8	1100.7	1133.2
57.5°	900.0	905.9	941.3	1003.3	1035.8
60°	814.5	817.4	849.9	905.9	938.4
62.5°	723.0	725.9	749.5	814.5	844.0
65°	640.4	637.4	661.0	711.2	740.7
67.5°	554.8	554.8	575.4	619.7	643.3
70°	469.2	469.2	486.9	525.3	548.9
72.5°	389.5	389.5	404.3	433.8	451.5
75°	309.8	306.9	321.7	345.3	363.0
77.5°	236.1	236.1	242.0	262.6	274.4
80°	168.2	168.2	171.2	183.0	191.8
82.5°	106.2	106.2	106.2	112.1	115.1
85°	50.2	56.1	56.1	50.2	47.2
87.5°	23.6	23.6	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)