

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: P383855

Luminaire Tested: **24ID-55-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L835-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

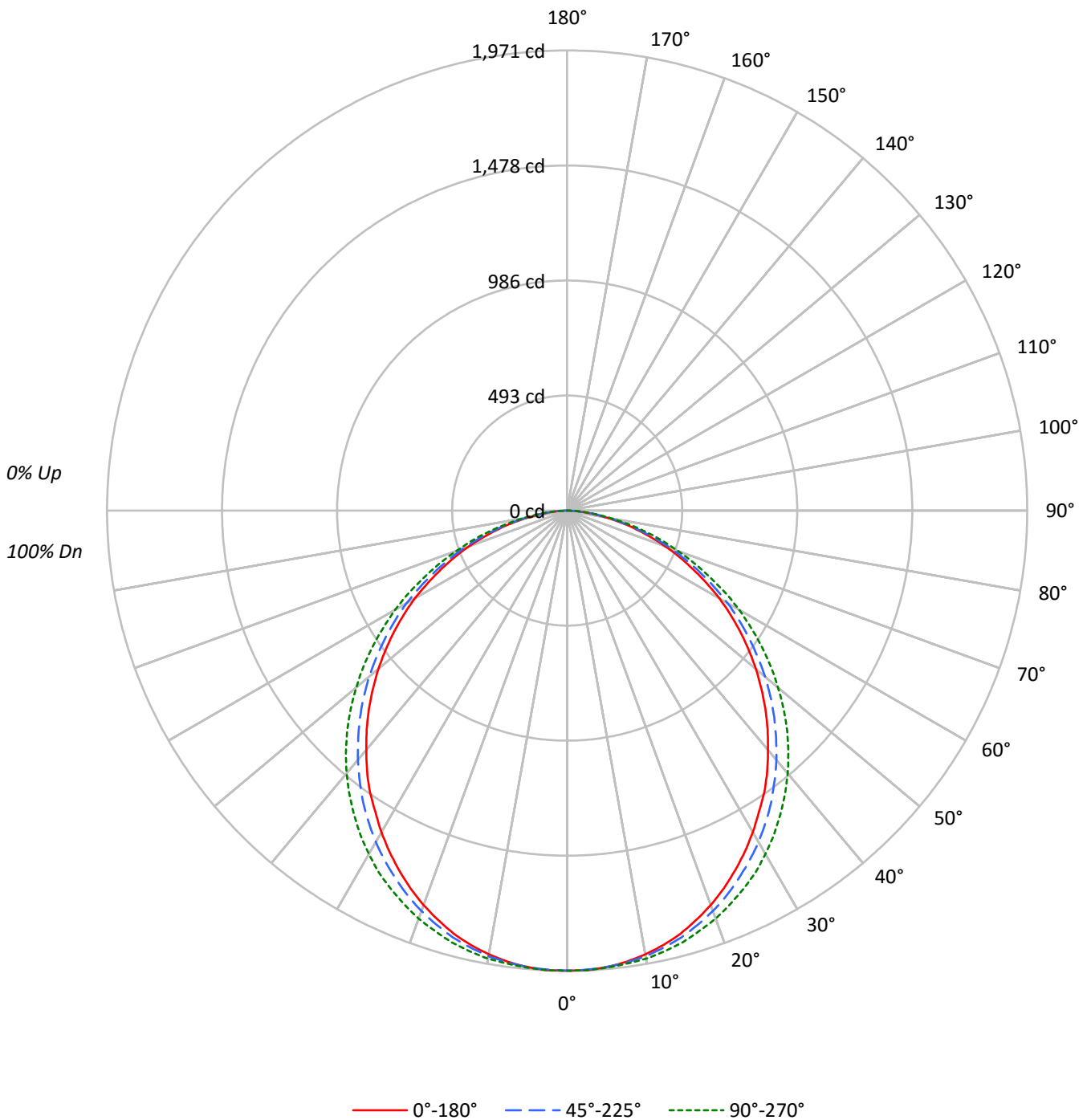
Lumens per Lamp: N/A
Luminaire Lumens: 5351.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2651	2651	2651
5°	2651	2651	2654
10°	2637	2648	2663
15°	2614	2636	2666
20°	2575	2613	2664
25°	2526	2582	2654
30°	2472	2547	2639
35°	2419	2503	2613
40°	2350	2449	2582
45°	2285	2387	2536
50°	2209	2316	2468
55°	2122	2229	2387
60°	2028	2137	2289
65°	1894	2006	2143
70°	1758	1853	1980
75°	1567	1652	1791
80°	1314	1377	1502
85°	997	997	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.5
10°-20°	533.7	10.0
20°-30°	802.4	15.0
30°-40°	954.6	17.8
40°-50°	971.3	18.1
50°-60°	854.8	16.0
60°-70°	627.1	11.7
70°-80°	340.3	6.4
80°-90°	81.2	1.5
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°	1522.6	28.4
0°-40°	2477.2	46.3
0°-60°	4303.3	80.4
0°-90°	5351.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5351.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1962	1960	1962	1962	1965	186
15°	1876	1879	1892	1903	1914	529
25°	1701	1712	1739	1769	1788	784
35°	1473	1483	1524	1570	1591	919
45°	1201	1211	1254	1308	1333	926
55°	904	918	950	996	1018	809
65°	595	606	630	657	673	591
75°	302	307	318	334	345	320
85°	65	65	65	70	73	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1970.6	1970.6	1970.6	1970.6	1970.6
2.5°	1970.6	1967.9	1967.9	1967.9	1970.6
5°	1962.5	1959.8	1962.5	1962.5	1965.2
7.5°	1949.1	1946.4	1951.8	1954.5	1957.2
10°	1930.2	1930.2	1938.3	1943.7	1949.1
12.5°	1906.0	1908.7	1916.8	1924.8	1932.9
15°	1876.4	1879.1	1892.5	1903.3	1914.1
17.5°	1838.7	1844.1	1860.2	1876.4	1887.2
20°	1798.3	1806.4	1825.2	1846.8	1860.2
22.5°	1752.6	1763.3	1784.9	1811.8	1825.2
25°	1701.4	1712.2	1739.1	1768.7	1787.6
27.5°	1647.6	1661.0	1690.6	1725.6	1747.2
30°	1591.0	1604.5	1639.5	1677.2	1698.7
32.5°	1529.1	1545.3	1583.0	1626.0	1647.6
35°	1472.6	1483.3	1523.7	1569.5	1591.0
37.5°	1408.0	1421.4	1459.1	1507.6	1531.8
40°	1338.0	1351.4	1394.5	1443.0	1469.9
42.5°	1270.7	1281.4	1324.5	1378.4	1402.6
45°	1200.7	1211.4	1254.5	1308.4	1332.6
47.5°	1128.0	1141.4	1181.8	1233.0	1257.2
50°	1055.3	1066.1	1106.5	1154.9	1179.1
52.5°	979.9	990.7	1028.4	1076.8	1101.1
55°	904.5	918.0	950.3	996.1	1017.6
57.5°	829.2	842.6	872.2	915.3	934.2
60°	753.8	764.6	794.2	831.9	850.7
62.5°	673.0	681.1	710.7	748.4	764.6
65°	595.0	605.7	630.0	656.9	673.0
67.5°	522.3	527.7	549.2	578.8	589.6
70°	446.9	452.3	471.1	495.3	503.4
72.5°	371.5	379.6	393.0	414.6	425.4
75°	301.5	306.9	317.7	333.8	344.6
77.5°	234.2	236.9	245.0	258.4	266.5
80°	169.6	172.3	177.7	188.4	193.8
82.5°	113.1	115.8	118.5	123.8	129.2
85°	64.6	64.6	64.6	70.0	72.7
87.5°	24.2	21.5	21.5	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)