

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: P385199

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385199
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-L835-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

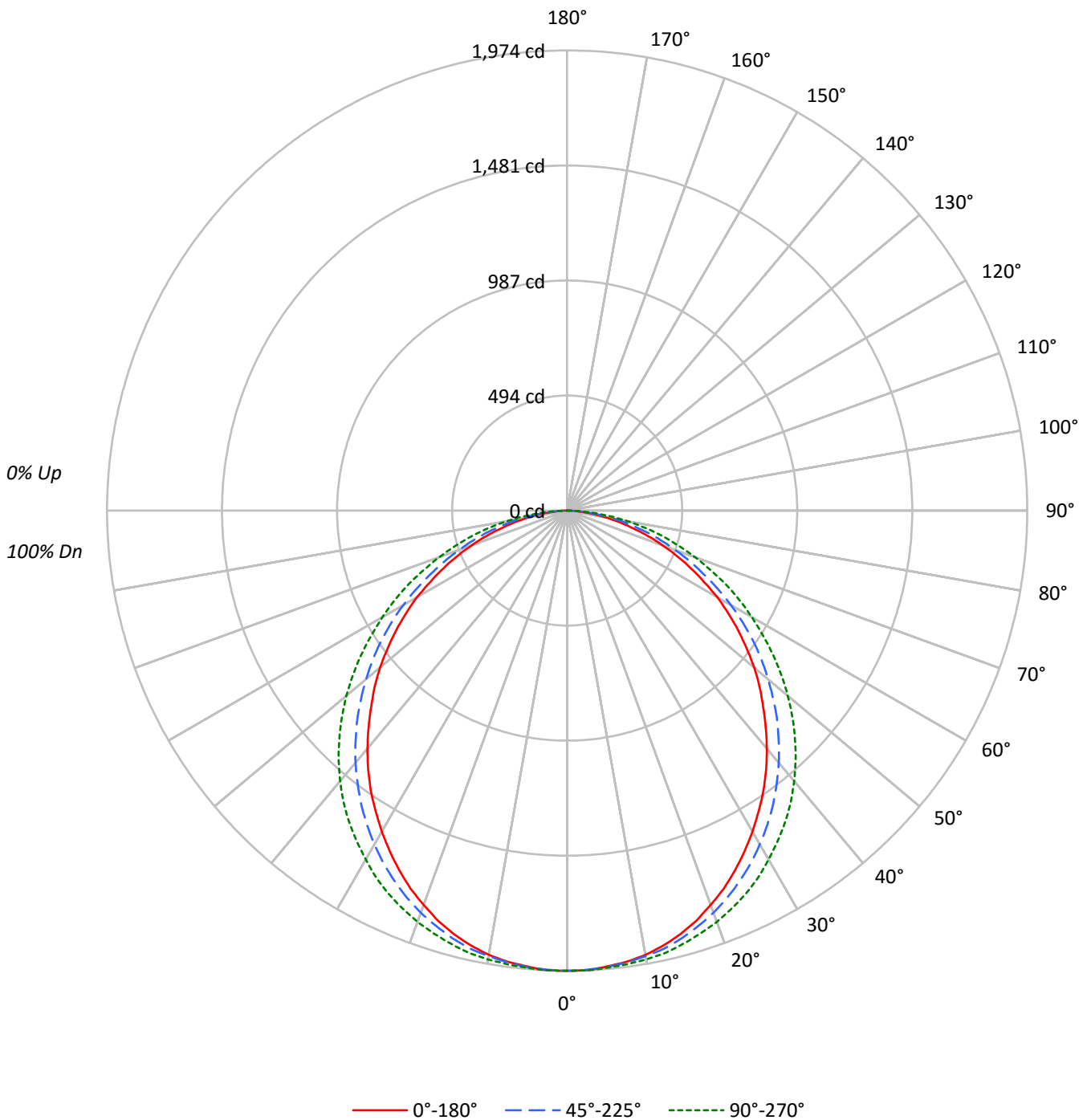
Lumens per Lamp: N/A
Luminaire Lumens: 5481.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2656	2656	2656
5°	2651	2655	2659
10°	2644	2652	2671
15°	2619	2646	2680
20°	2577	2629	2688
25°	2528	2602	2693
30°	2470	2569	2685
35°	2411	2530	2679
40°	2341	2481	2661
45°	2262	2425	2630
50°	2193	2355	2587
55°	2101	2283	2529
60°	2001	2187	2463
65°	1866	2060	2394
70°	1718	1936	2295
75°	1524	1797	2199
80°	1285	1607	2035
85°	939	1238	1623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.4
10°-20°	536.1	9.8
20°-30°	808.5	14.8
30°-40°	965.3	17.6
40°-50°	986.5	18.0
50°-60°	874.8	16.0
60°-70°	652.1	11.9
70°-80°	372.5	6.8
80°-90°	98.3	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°	1531.5	27.9
0°-40°	2496.8	45.6
0°-60°	4358.1	79.5
0°-90°	5481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1963	1963	1966	1966	1968	187
15°	1880	1886	1899	1916	1924	530
25°	1703	1717	1753	1792	1814	784
35°	1468	1488	1540	1601	1631	917
45°	1189	1214	1275	1344	1382	919
55°	896	912	973	1042	1078	800
65°	586	600	647	713	752	581
75°	293	307	346	398	423	313
85°	61	64	80	100	105	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1974.1	1974.1	1974.1	1974.1	1974.1
2.5°	1974.1	1971.3	1971.3	1971.3	1974.1
5°	1963.0	1963.0	1965.8	1965.8	1968.5
7.5°	1951.9	1951.9	1954.7	1957.5	1963.0
10°	1935.4	1935.4	1940.9	1949.2	1954.7
12.5°	1910.5	1913.2	1924.3	1935.4	1943.7
15°	1880.1	1885.6	1899.4	1916.0	1924.3
17.5°	1844.1	1849.6	1869.0	1891.1	1902.2
20°	1799.9	1810.9	1835.8	1863.5	1877.3
22.5°	1755.6	1766.7	1797.1	1830.3	1846.9
25°	1703.1	1716.9	1752.9	1791.6	1813.7
27.5°	1647.8	1664.4	1705.9	1750.1	1775.0
30°	1589.8	1609.1	1653.3	1703.1	1728.0
32.5°	1528.9	1548.3	1598.1	1653.3	1681.0
35°	1468.1	1487.5	1540.0	1600.8	1631.2
37.5°	1401.8	1421.1	1476.4	1542.8	1575.9
40°	1332.6	1354.8	1412.8	1479.2	1515.1
42.5°	1260.7	1285.6	1343.7	1415.6	1451.5
45°	1188.9	1213.7	1274.6	1343.7	1382.4
47.5°	1119.7	1139.1	1199.9	1271.8	1310.5
50°	1047.9	1064.4	1125.3	1197.2	1235.9
52.5°	970.4	992.6	1050.6	1122.5	1158.4
55°	895.8	912.4	973.2	1042.3	1078.3
57.5°	818.4	835.0	893.0	962.1	995.3
60°	743.7	760.3	812.9	882.0	915.1
62.5°	660.8	677.4	729.9	801.8	835.0
65°	586.1	600.0	647.0	713.3	752.0
67.5°	511.5	525.3	569.5	633.1	663.6
70°	436.8	447.9	492.1	550.2	583.4
72.5°	365.0	376.0	420.2	472.8	500.4
75°	293.1	306.9	345.6	398.1	423.0
77.5°	226.7	240.5	273.7	320.7	342.8
80°	165.9	176.9	207.4	243.3	262.7
82.5°	110.6	118.9	141.0	171.4	185.2
85°	60.8	63.6	80.2	99.5	105.1
87.5°	24.9	24.9	30.4	33.2	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)