

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: P385195

Luminaire Tested: **24ID-50-L835-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385195
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-50-L835-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

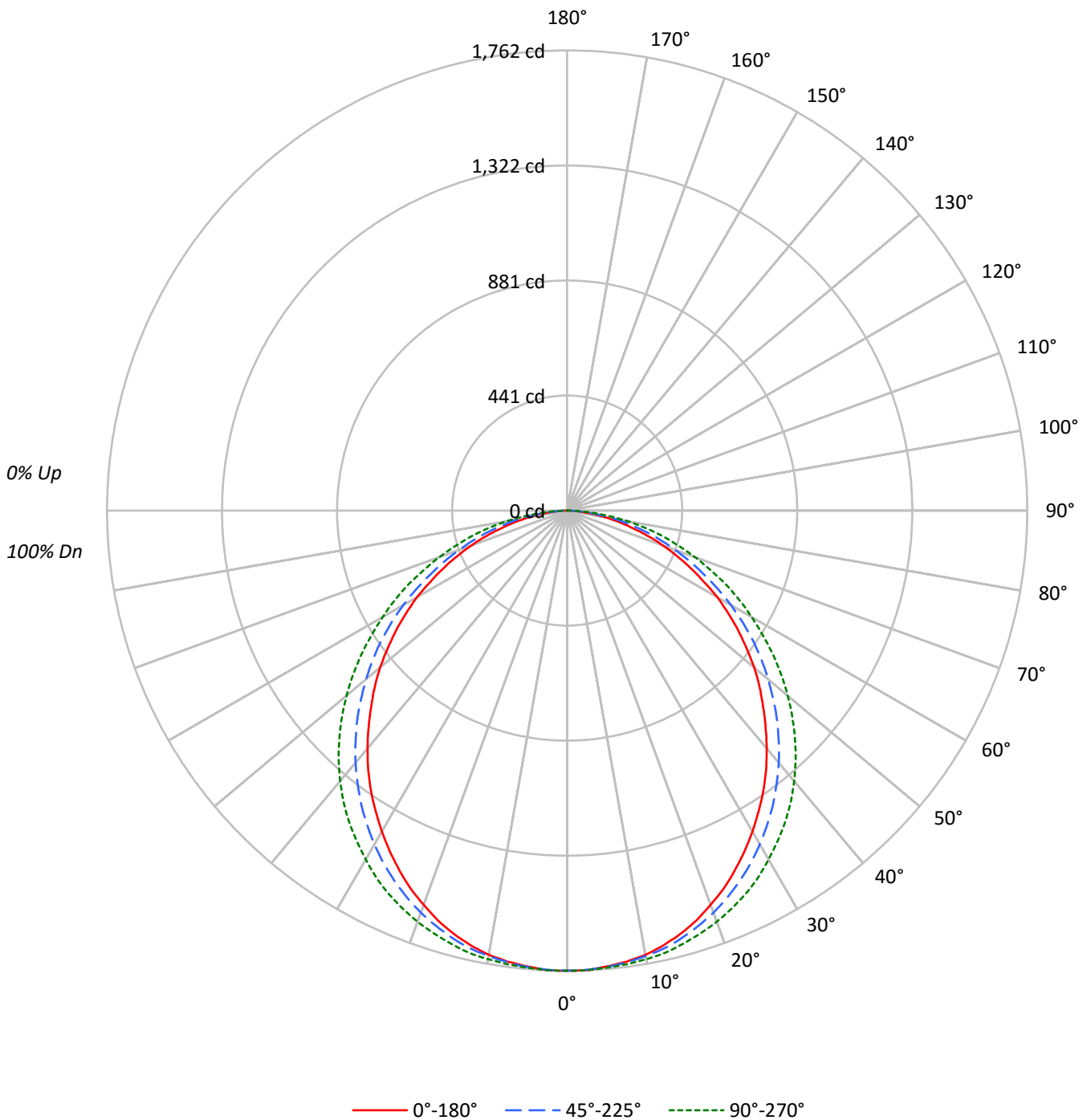
Lumens per Lamp: N/A
Luminaire Lumens: 4891.6 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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°	2370	2370	2370
5°	2366	2370	2373
10°	2360	2367	2383
15°	2337	2361	2392
20°	2300	2346	2399
25°	2257	2322	2403
30°	2204	2293	2396
35°	2152	2258	2391
40°	2089	2215	2375
45°	2019	2164	2347
50°	1958	2102	2309
55°	1875	2038	2257
60°	1786	1952	2198
65°	1665	1838	2137
70°	1534	1728	2048
75°	1360	1603	1962
80°	1147	1434	1816
85°	838	1105	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.4
10°-20°	478.4	9.8
20°-30°	721.6	14.8
30°-40°	861.5	17.6
40°-50°	880.5	18.0
50°-60°	780.7	16.0
60°-70°	582.0	11.9
70°-80°	332.5	6.8
80°-90°	87.7	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°	1366.8	27.9
0°-40°	2228.3	45.6
0°-60°	3889.4	79.5
0°-90°	4891.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1752	1752	1754	1754	1757	167
15°	1678	1683	1695	1710	1717	473
25°	1520	1532	1564	1599	1619	700
35°	1310	1328	1374	1429	1456	819
45°	1061	1083	1138	1199	1234	820
55°	800	814	869	930	962	714
65°	523	535	577	637	671	518
75°	262	274	308	355	378	279
85°	54	57	72	89	94	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.8	1761.8	1761.8	1761.8	1761.8
2.5°	1761.8	1759.3	1759.3	1759.3	1761.8
5°	1751.9	1751.9	1754.4	1754.4	1756.8
7.5°	1742.0	1742.0	1744.5	1747.0	1751.9
10°	1727.2	1727.2	1732.2	1739.6	1744.5
12.5°	1705.0	1707.5	1717.4	1727.2	1734.6
15°	1677.9	1682.8	1695.2	1710.0	1717.4
17.5°	1645.8	1650.7	1668.0	1687.8	1697.6
20°	1606.3	1616.2	1638.4	1663.1	1675.4
22.5°	1566.9	1576.7	1603.9	1633.5	1648.3
25°	1520.0	1532.3	1564.4	1598.9	1618.7
27.5°	1470.6	1485.4	1522.4	1561.9	1584.1
30°	1418.8	1436.1	1475.6	1520.0	1542.2
32.5°	1364.5	1381.8	1426.2	1475.6	1500.2
35°	1310.2	1327.5	1374.4	1428.7	1455.8
37.5°	1251.0	1268.3	1317.6	1376.9	1406.5
40°	1189.3	1209.1	1260.9	1320.1	1352.2
42.5°	1125.2	1147.4	1199.2	1263.4	1295.4
45°	1061.0	1083.2	1137.5	1199.2	1233.7
47.5°	999.3	1016.6	1070.9	1135.0	1169.6
50°	935.2	950.0	1004.3	1068.4	1103.0
52.5°	866.1	885.8	937.6	1001.8	1033.9
55°	799.5	814.3	868.6	930.2	962.3
57.5°	730.4	745.2	797.0	858.7	888.3
60°	663.8	678.6	725.4	787.1	816.7
62.5°	589.7	604.5	651.4	715.6	745.2
65°	523.1	535.4	577.4	636.6	671.2
67.5°	456.5	468.8	508.3	565.1	592.2
70°	389.9	399.7	439.2	491.0	520.6
72.5°	325.7	335.6	375.1	421.9	446.6
75°	261.6	273.9	308.4	355.3	377.5
77.5°	202.3	214.7	244.3	286.2	306.0
80°	148.0	157.9	185.1	217.1	234.4
82.5°	98.7	106.1	125.8	153.0	165.3
85°	54.3	56.8	71.6	88.8	93.8
87.5°	22.2	22.2	27.1	29.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)