

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: P385197

Luminaire Tested: **24ID-50-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385197
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-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

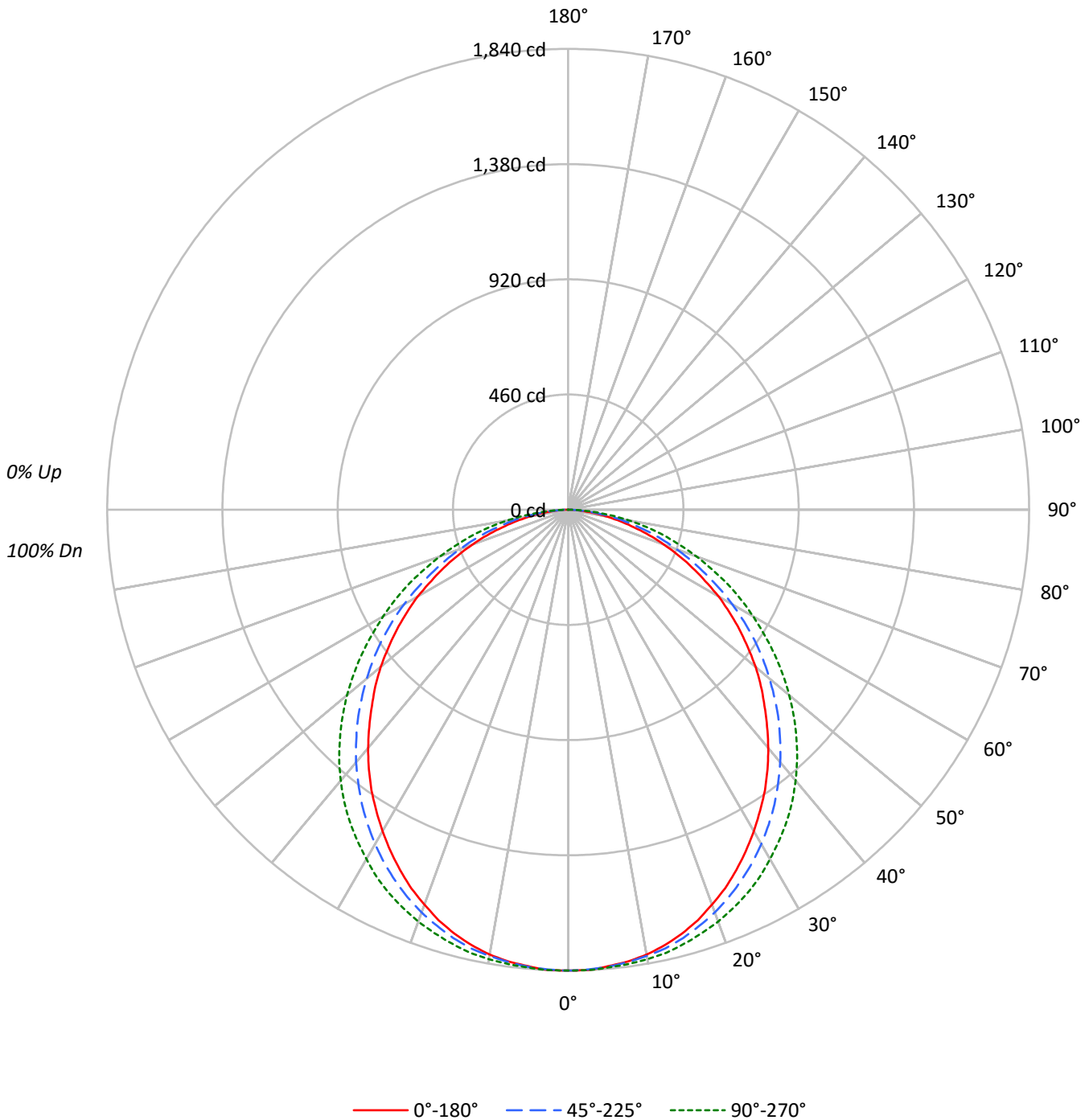
Lumens per Lamp: N/A
Luminaire Lumens: 5109.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	2476	2476	2476
5°	2471	2475	2478
10°	2465	2472	2489
15°	2441	2466	2499
20°	2402	2450	2506
25°	2357	2426	2510
30°	2302	2394	2502
35°	2248	2358	2497
40°	2182	2313	2481
45°	2109	2261	2452
50°	2044	2196	2411
55°	1959	2128	2358
60°	1866	2039	2295
65°	1740	1920	2232
70°	1602	1805	2139
75°	1420	1674	2050
80°	1198	1498	1897
85°	875	1153	1511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.4
10°-20°	499.7	9.8
20°-30°	753.7	14.8
30°-40°	899.8	17.6
40°-50°	919.6	18.0
50°-60°	815.4	16.0
60°-70°	607.9	11.9
70°-80°	347.2	6.8
80°-90°	91.6	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°	1427.5	27.9
0°-40°	2327.3	45.6
0°-60°	4062.3	79.5
0°-90°	5109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1830	1830	1832	1832	1835	174
15°	1752	1758	1770	1786	1794	494
25°	1588	1600	1634	1670	1691	731
35°	1368	1386	1436	1492	1520	855
45°	1108	1131	1188	1252	1289	856
55°	835	850	907	972	1005	746
65°	546	559	603	665	701	542
75°	273	286	322	371	394	291
85°	57	59	75	93	98	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1840.1	1837.5	1837.5	1837.5	1840.1
5°	1829.8	1829.8	1832.4	1832.4	1834.9
7.5°	1819.5	1819.5	1822.0	1824.6	1829.8
10°	1804.0	1804.0	1809.2	1816.9	1822.0
12.5°	1780.8	1783.4	1793.7	1804.0	1811.7
15°	1752.5	1757.6	1770.5	1786.0	1793.7
17.5°	1719.0	1724.1	1742.2	1762.8	1773.1
20°	1677.7	1688.0	1711.2	1737.0	1749.9
22.5°	1636.5	1646.8	1675.1	1706.1	1721.5
25°	1587.5	1600.4	1633.9	1670.0	1690.6
27.5°	1536.0	1551.4	1590.1	1631.3	1654.5
30°	1481.9	1499.9	1541.1	1587.5	1610.7
32.5°	1425.2	1443.2	1489.6	1541.1	1566.9
35°	1368.5	1386.5	1435.5	1492.2	1520.5
37.5°	1306.6	1324.7	1376.2	1438.0	1469.0
40°	1242.2	1262.8	1316.9	1378.8	1412.3
42.5°	1175.2	1198.4	1252.5	1319.5	1353.0
45°	1108.2	1131.4	1188.1	1252.5	1288.6
47.5°	1043.7	1061.8	1118.5	1185.5	1221.6
50°	976.7	992.2	1048.9	1115.9	1152.0
52.5°	904.6	925.2	979.3	1046.3	1079.8
55°	835.0	850.5	907.2	971.6	1005.1
57.5°	762.8	778.3	832.4	896.8	927.8
60°	693.3	708.7	757.7	822.1	853.0
62.5°	615.9	631.4	680.4	747.4	778.3
65°	546.4	559.2	603.1	664.9	701.0
67.5°	476.8	489.7	530.9	590.2	618.5
70°	407.2	417.5	458.7	512.9	543.8
72.5°	340.2	350.5	391.7	440.7	466.5
75°	273.2	286.1	322.1	371.1	394.3
77.5°	211.3	224.2	255.1	298.9	319.6
80°	154.6	164.9	193.3	226.8	244.8
82.5°	103.1	110.8	131.4	159.8	172.7
85°	56.7	59.3	74.7	92.8	97.9
87.5°	23.2	23.2	28.3	30.9	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)