

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: P384021

Luminaire Tested: **24ID-50-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384021
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-50-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

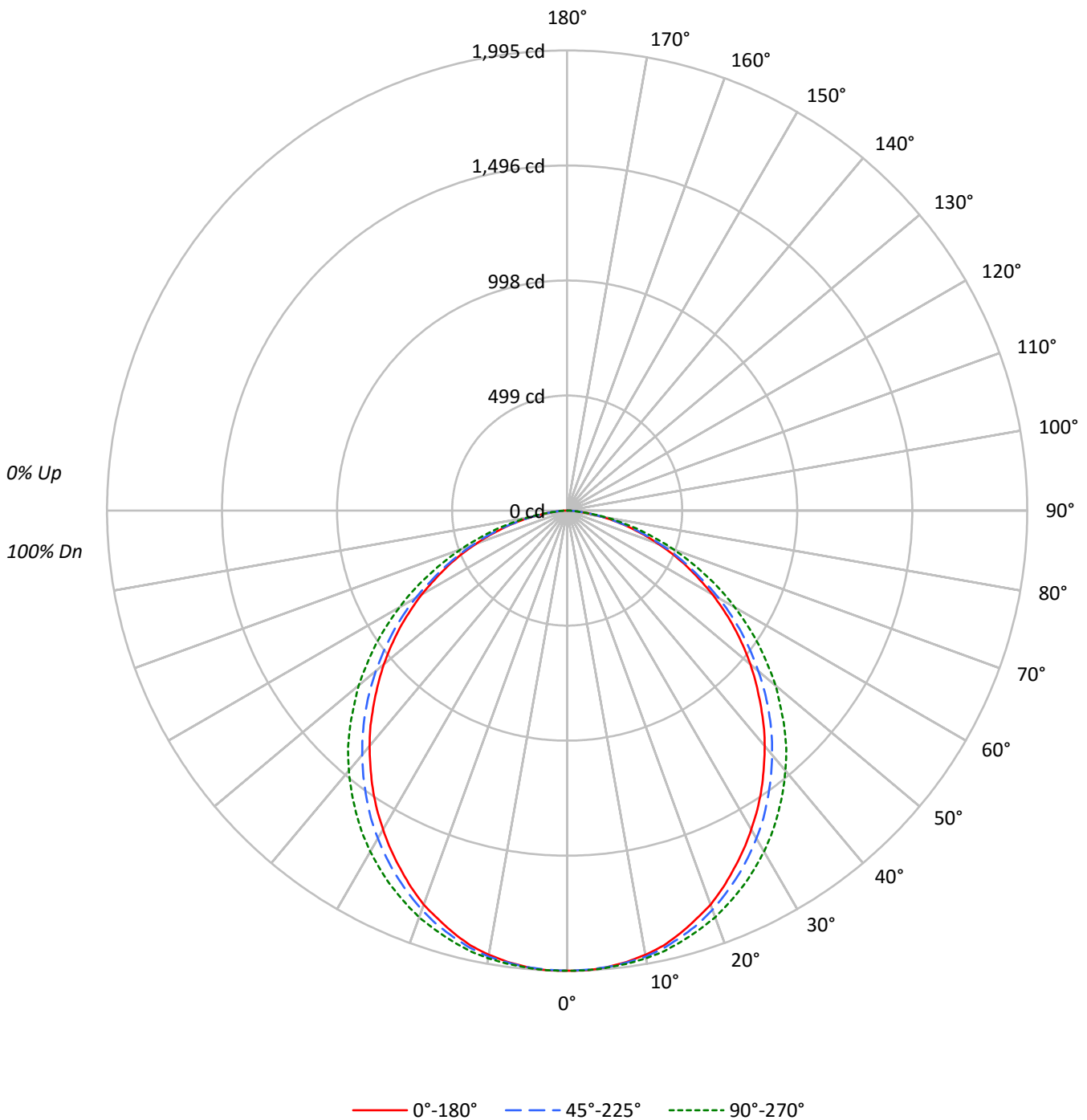
Lumens per Lamp: N/A
Luminaire Lumens: 5265.9 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P384021
CATALOG NUMBER: 24ID-50-L850-CFR2

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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2684	2684	2684
5°	2684	2684	2687
10°	2671	2682	2693
15°	2643	2665	2690
20°	2603	2637	2686
25°	2542	2597	2672
30°	2480	2550	2652
35°	2414	2492	2622
40°	2340	2428	2586
45°	2254	2355	2535
50°	2171	2264	2469
55°	2073	2166	2377
60°	1960	2045	2258
65°	1823	1882	2109
70°	1650	1713	1931
75°	1441	1495	1687
80°	1165	1185	1329
85°	693	773	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	3.6
10°-20°	539.7	10.2
20°-30°	807.4	15.3
30°-40°	953.9	18.1
40°-50°	962.5	18.3
50°-60°	835.9	15.9
60°-70°	599.4	11.4
70°-80°	312.3	5.9
80°-90°	65.9	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°	1536.0	29.2
0°-40°	2489.9	47.3
0°-60°	4288.3	81.4
0°-90°	5265.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1995	1995	1995	1995	1995	
5°	1987	1984	1987	1987	1990	189
15°	1897	1900	1913	1926	1932	535
25°	1712	1723	1749	1784	1800	789
35°	1470	1480	1517	1573	1596	919
45°	1185	1198	1238	1301	1332	915
55°	884	892	924	984	1013	790
65°	573	570	591	636	662	566
75°	277	274	288	309	324	296
85°	45	50	50	45	42	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1994.8	1994.8	1994.8	1994.8	1994.8
2.5°	1994.8	1992.2	1992.2	1992.2	1994.8
5°	1986.9	1984.2	1986.9	1986.9	1989.5
7.5°	1973.7	1971.0	1976.3	1979.0	1981.6
10°	1955.2	1955.2	1963.1	1968.4	1971.0
12.5°	1931.5	1931.5	1942.0	1949.9	1955.2
15°	1897.2	1899.8	1913.0	1926.2	1931.5
17.5°	1857.6	1865.5	1881.3	1899.8	1905.1
20°	1818.0	1823.3	1841.8	1865.5	1876.1
22.5°	1767.9	1775.8	1796.9	1828.6	1839.1
25°	1712.5	1723.0	1749.4	1783.7	1799.5
27.5°	1657.0	1665.0	1696.6	1736.2	1754.7
30°	1596.4	1606.9	1641.2	1686.1	1707.2
32.5°	1535.7	1543.6	1583.2	1630.7	1654.4
35°	1469.7	1480.3	1517.2	1572.6	1596.4
37.5°	1401.1	1414.3	1451.2	1509.3	1535.7
40°	1332.5	1340.4	1382.6	1440.7	1472.3
42.5°	1261.3	1271.8	1311.4	1374.7	1406.4
45°	1184.7	1197.9	1237.5	1300.8	1332.5
47.5°	1110.9	1124.0	1161.0	1224.3	1253.3
50°	1037.0	1044.9	1081.8	1145.2	1179.5
52.5°	960.5	968.4	1002.7	1063.4	1095.0
55°	883.9	891.9	923.5	984.2	1013.2
57.5°	804.8	810.1	841.7	897.1	926.2
60°	728.3	730.9	759.9	810.1	839.1
62.5°	646.5	649.1	670.2	728.3	754.6
65°	572.6	569.9	591.0	635.9	662.3
67.5°	496.1	496.1	514.5	554.1	575.2
70°	419.5	419.5	435.4	469.7	490.8
72.5°	348.3	348.3	361.5	387.9	403.7
75°	277.1	274.4	287.6	308.7	324.5
77.5°	211.1	211.1	216.4	234.8	245.4
80°	150.4	150.4	153.0	163.6	171.5
82.5°	95.0	95.0	95.0	100.3	102.9
85°	44.9	50.1	50.1	44.9	42.2
87.5°	21.1	21.1	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)