

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: P384013

Luminaire Tested: **24ID-40-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384013
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-40-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

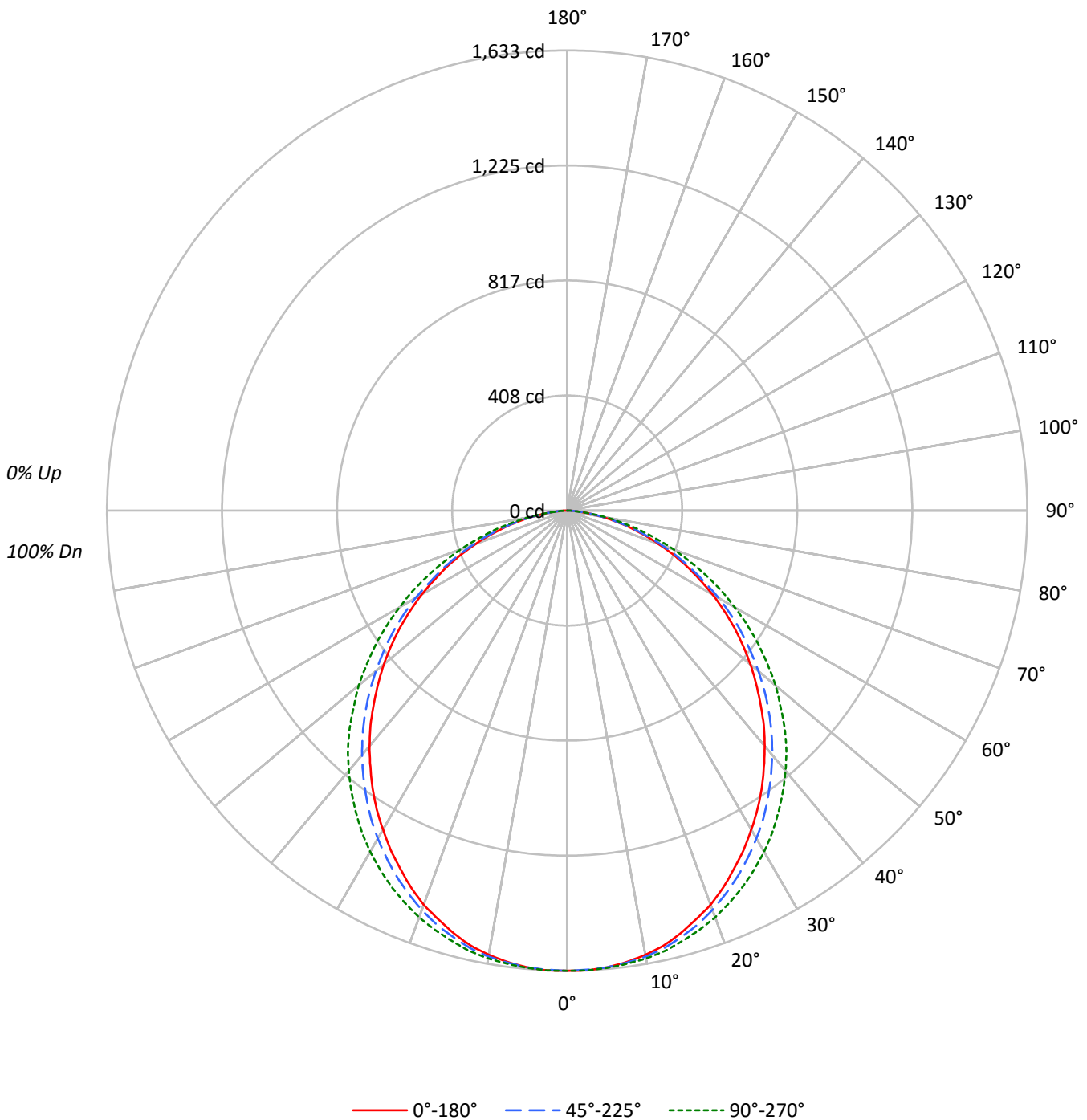
Lumens per Lamp: N/A
Luminaire Lumens: 4311.8 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2198	2198	2198
5°	2197	2197	2200
10°	2187	2196	2205
15°	2164	2182	2203
20°	2131	2159	2199
25°	2082	2127	2188
30°	2031	2088	2172
35°	1977	2041	2147
40°	1916	1988	2118
45°	1846	1928	2076
50°	1777	1854	2022
55°	1698	1774	1946
60°	1605	1674	1849
65°	1493	1541	1727
70°	1351	1402	1581
75°	1180	1224	1381
80°	955	971	1088
85°	567	634	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.6
10°-20°	441.9	10.2
20°-30°	661.1	15.3
30°-40°	781.1	18.1
40°-50°	788.2	18.3
50°-60°	684.5	15.9
60°-70°	490.8	11.4
70°-80°	255.7	5.9
80°-90°	54.0	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°	1257.7	29.2
0°-40°	2038.7	47.3
0°-60°	3511.4	81.4
0°-90°	4311.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1627	1625	1627	1627	1629	154
15°	1553	1556	1566	1577	1582	438
25°	1402	1411	1432	1460	1474	646
35°	1203	1212	1242	1288	1307	752
45°	970	981	1013	1065	1091	749
55°	724	730	756	806	830	646
65°	469	467	484	521	542	464
75°	227	225	236	253	266	242
85°	37	41	41	37	35	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.4	1633.4	1633.4	1633.4	1633.4
2.5°	1633.4	1631.2	1631.2	1631.2	1633.4
5°	1626.9	1624.7	1626.9	1626.9	1629.0
7.5°	1616.1	1613.9	1618.2	1620.4	1622.6
10°	1601.0	1601.0	1607.4	1611.8	1613.9
12.5°	1581.5	1581.5	1590.2	1596.6	1601.0
15°	1553.4	1555.6	1566.4	1577.2	1581.5
17.5°	1521.0	1527.5	1540.5	1555.6	1559.9
20°	1488.6	1492.9	1508.1	1527.5	1536.1
22.5°	1447.6	1454.0	1471.3	1497.3	1505.9
25°	1402.2	1410.8	1432.4	1460.5	1473.5
27.5°	1356.8	1363.3	1389.2	1421.6	1436.8
30°	1307.1	1315.8	1343.9	1380.6	1397.9
32.5°	1257.4	1263.9	1296.3	1335.2	1354.7
35°	1203.4	1212.1	1242.3	1287.7	1307.1
37.5°	1147.2	1158.0	1188.3	1235.8	1257.4
40°	1091.1	1097.6	1132.1	1179.7	1205.6
42.5°	1032.7	1041.4	1073.8	1125.6	1151.6
45°	970.1	980.9	1013.3	1065.1	1091.1
47.5°	909.6	920.4	950.6	1002.5	1026.3
50°	849.1	855.6	885.8	937.7	965.8
52.5°	786.4	792.9	821.0	870.7	896.6
55°	723.8	730.3	756.2	805.9	829.6
57.5°	659.0	663.3	689.2	734.6	758.3
60°	596.3	598.5	622.2	663.3	687.1
62.5°	529.3	531.5	548.8	596.3	617.9
65°	468.8	466.7	484.0	520.7	542.3
67.5°	406.2	406.2	421.3	453.7	471.0
70°	343.5	343.5	356.5	384.6	401.9
72.5°	285.2	285.2	296.0	317.6	330.6
75°	226.9	224.7	235.5	252.8	265.7
77.5°	172.8	172.8	177.2	192.3	200.9
80°	123.2	123.2	125.3	134.0	140.4
82.5°	77.8	77.8	77.8	82.1	84.3
85°	36.7	41.1	41.1	36.7	34.6
87.5°	17.3	17.3	15.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)