

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: P383845

Luminaire Tested: **24ID-40-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-40-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

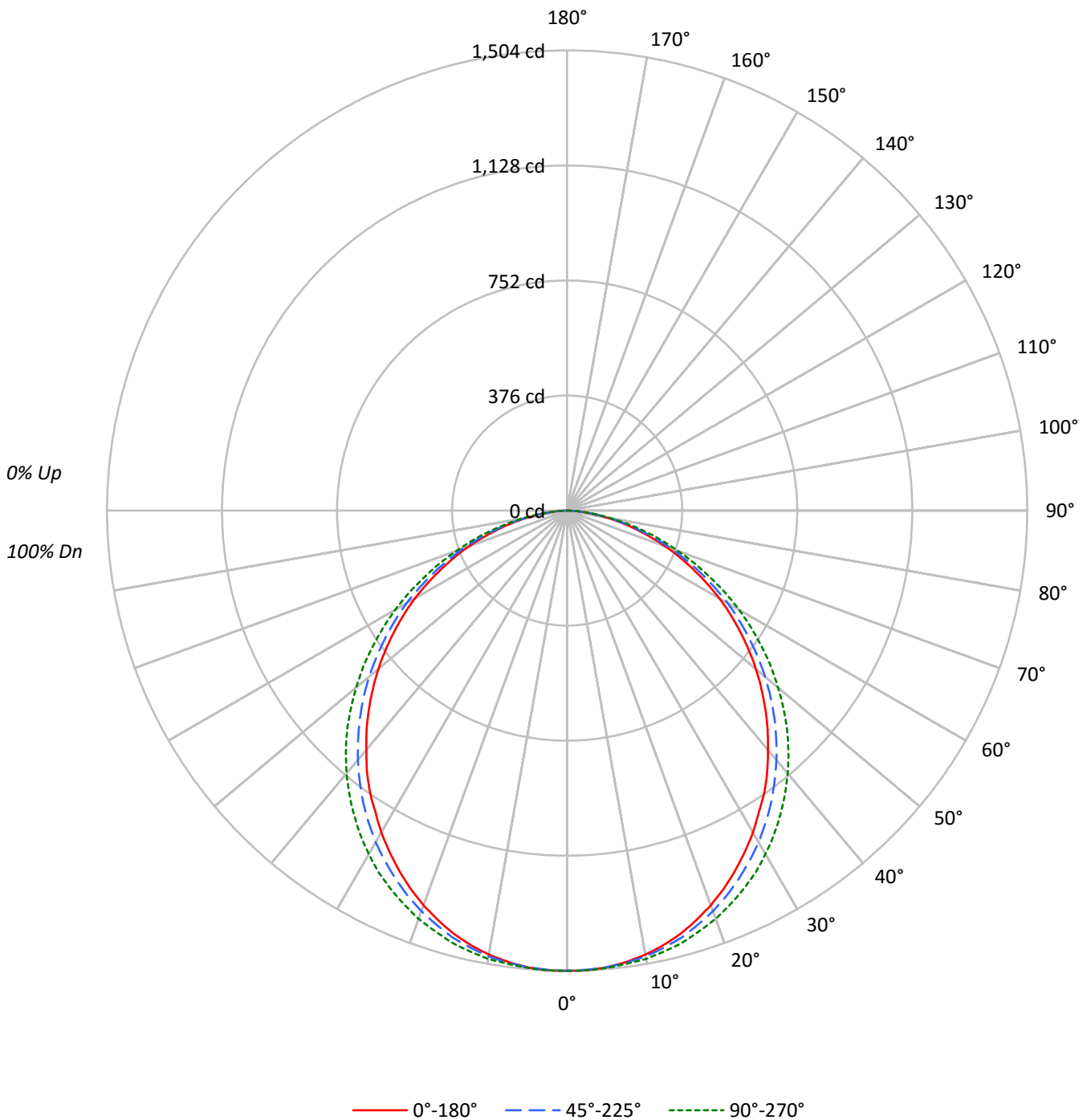
Lumens per Lamp: N/A
Luminaire Lumens: 4084.9 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2024	2024	2024
5°	2023	2023	2026
10°	2013	2021	2033
15°	1995	2012	2035
20°	1965	1995	2033
25°	1928	1971	2026
30°	1887	1944	2014
35°	1846	1910	1995
40°	1794	1870	1971
45°	1744	1822	1935
50°	1686	1768	1884
55°	1620	1701	1822
60°	1548	1631	1747
65°	1446	1531	1635
70°	1342	1415	1511
75°	1196	1261	1367
80°	1003	1051	1146
85°	761	761	857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.5
10°-20°	407.3	10.0
20°-30°	612.5	15.0
30°-40°	728.6	17.8
40°-50°	741.3	18.1
50°-60°	652.4	16.0
60°-70°	478.6	11.7
70°-80°	259.8	6.4
80°-90°	62.0	1.5
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°	1162.1	28.4
0°-40°	1890.7	46.3
0°-60°	3284.5	80.4
0°-90°	4084.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1498	1496	1498	1498	1500	142
15°	1432	1434	1444	1453	1461	403
25°	1299	1307	1327	1350	1364	598
35°	1124	1132	1163	1198	1214	702
45°	916	925	958	999	1017	706
55°	690	701	725	760	777	617
65°	454	462	481	501	514	451
75°	230	234	242	255	263	245
85°	49	49	49	53	56	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.1	1504.1	1504.1	1504.1	1504.1
2.5°	1504.1	1502.0	1502.0	1502.0	1504.1
5°	1497.9	1495.9	1497.9	1497.9	1500.0
7.5°	1487.7	1485.6	1489.7	1491.8	1493.8
10°	1473.3	1473.3	1479.4	1483.5	1487.7
12.5°	1454.8	1456.8	1463.0	1469.2	1475.3
15°	1432.2	1434.2	1444.5	1452.7	1460.9
17.5°	1403.4	1407.5	1419.8	1432.2	1440.4
20°	1372.6	1378.8	1393.1	1409.6	1419.8
22.5°	1337.7	1345.9	1362.3	1382.9	1393.1
25°	1298.6	1306.8	1327.4	1350.0	1364.4
27.5°	1257.5	1267.8	1290.4	1317.1	1333.5
30°	1214.4	1224.6	1251.4	1280.1	1296.6
32.5°	1167.1	1179.4	1208.2	1241.1	1257.5
35°	1124.0	1132.2	1163.0	1197.9	1214.4
37.5°	1074.6	1084.9	1113.7	1150.7	1169.2
40°	1021.2	1031.5	1064.4	1101.4	1121.9
42.5°	969.9	978.1	1010.9	1052.0	1070.5
45°	916.4	924.6	957.5	998.6	1017.1
47.5°	860.9	871.2	902.0	941.1	959.6
50°	805.5	813.7	844.5	881.5	900.0
52.5°	747.9	756.2	784.9	821.9	840.4
55°	690.4	700.7	725.3	760.3	776.7
57.5°	632.9	643.1	665.7	698.6	713.0
60°	575.3	583.6	606.2	634.9	649.3
62.5°	513.7	519.9	542.5	571.2	583.6
65°	454.1	462.3	480.8	501.4	513.7
67.5°	398.6	402.7	419.2	441.8	450.0
70°	341.1	345.2	359.6	378.1	384.2
72.5°	283.6	289.7	300.0	316.4	324.7
75°	230.1	234.2	242.5	254.8	263.0
77.5°	178.8	180.8	187.0	197.3	203.4
80°	129.5	131.5	135.6	143.8	147.9
82.5°	86.3	88.4	90.4	94.5	98.6
85°	49.3	49.3	49.3	53.4	55.5
87.5°	18.5	16.4	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)