

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: P385359

Luminaire Tested: **24ID-45-L835-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L835-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

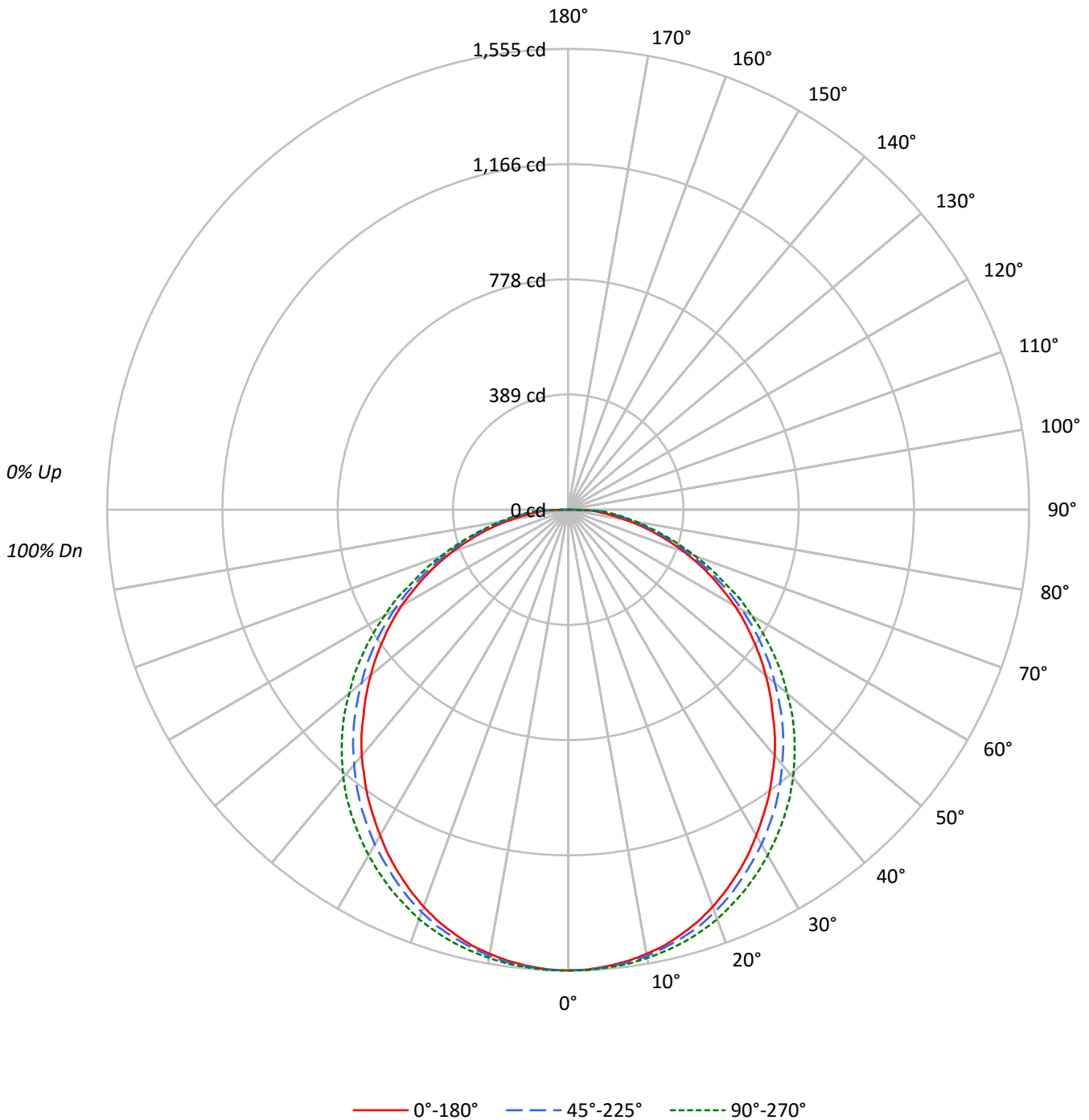
Lumens per Lamp: N/A
Luminaire Lumens: 4509.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 40
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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CATALOG NUMBER: 24ID-45-L835-CNV

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2092	2092	2092
5°	2080	2075	2079
10°	2064	2057	2068
15°	2042	2033	2058
20°	2011	2004	2044
25°	1971	1966	2021
30°	1925	1928	1995
35°	1883	1886	1969
40°	1839	1837	1937
45°	1782	1788	1895
50°	1735	1723	1835
55°	1682	1661	1770
60°	1630	1582	1682
65°	1556	1481	1565
70°	1465	1373	1456
75°	1361	1256	1330
80°	1220	1138	1222
85°	1152	1080	1169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.3
10°-20°	421.6	9.3
20°-30°	636.3	14.1
30°-40°	763.7	16.9
40°-50°	790.4	17.5
50°-60°	716.0	15.9
60°-70°	551.7	12.2
70°-80°	341.4	7.6
80°-90°	141.8	3.1
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°	1205.0	26.7
0°-40°	1968.7	43.7
0°-60°	3475.1	77.1
0°-90°	4509.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4509.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1546	1546	1548	1548	1550	147
15°	1482	1485	1494	1503	1510	418
25°	1353	1358	1379	1402	1414	623
35°	1180	1189	1220	1252	1269	737
45°	976	990	1022	1060	1079	754
55°	760	772	797	833	844	680
65°	532	537	554	577	579	526
75°	302	310	321	335	335	320
85°	110	122	141	150	148	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.9	1554.9	1554.9	1554.9	1554.9
2.5°	1552.6	1552.6	1552.6	1552.6	1554.9
5°	1545.5	1545.5	1547.9	1547.9	1550.2
7.5°	1536.2	1536.2	1540.9	1540.9	1545.5
10°	1522.1	1524.4	1529.1	1531.5	1536.2
12.5°	1505.7	1505.7	1512.7	1519.7	1524.4
15°	1482.2	1484.6	1493.9	1503.3	1510.4
17.5°	1456.4	1458.8	1472.8	1482.2	1491.6
20°	1425.9	1428.3	1444.7	1458.8	1470.5
22.5°	1390.8	1395.4	1414.2	1433.0	1442.3
25°	1353.2	1357.9	1379.0	1402.5	1414.2
27.5°	1313.4	1320.4	1341.5	1367.3	1381.4
30°	1268.8	1278.2	1304.0	1332.1	1346.2
32.5°	1224.2	1233.6	1261.8	1294.6	1308.7
35°	1179.7	1189.1	1219.5	1252.4	1268.8
37.5°	1130.4	1139.8	1172.6	1207.8	1226.6
40°	1083.5	1092.9	1123.4	1163.3	1179.7
42.5°	1031.9	1041.3	1074.1	1111.7	1130.4
45°	975.6	989.7	1022.5	1060.1	1078.8
47.5°	924.0	935.8	966.3	1006.1	1024.9
50°	870.1	881.8	910.0	949.8	963.9
52.5°	816.2	827.9	856.0	893.6	907.6
55°	759.9	771.6	797.4	832.6	844.3
57.5°	705.9	715.3	738.8	771.6	781.0
60°	649.6	659.0	677.8	708.3	715.3
62.5°	588.7	595.7	616.8	645.0	654.3
65°	532.4	537.1	553.5	576.9	579.3
67.5°	473.7	478.4	494.9	511.3	518.3
70°	415.1	422.2	433.9	450.3	455.0
72.5°	358.8	365.9	377.6	391.7	394.0
75°	302.5	309.6	321.3	335.4	335.4
77.5°	248.6	255.6	269.7	281.4	281.4
80°	194.7	206.4	220.5	232.2	232.2
82.5°	150.1	159.5	178.2	187.6	187.6
85°	110.2	122.0	140.7	150.1	147.8
87.5°	79.7	91.5	107.9	114.9	112.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)