

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: P385355

Luminaire Tested: **24ID-40-L835-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385355  
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-40-L835-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

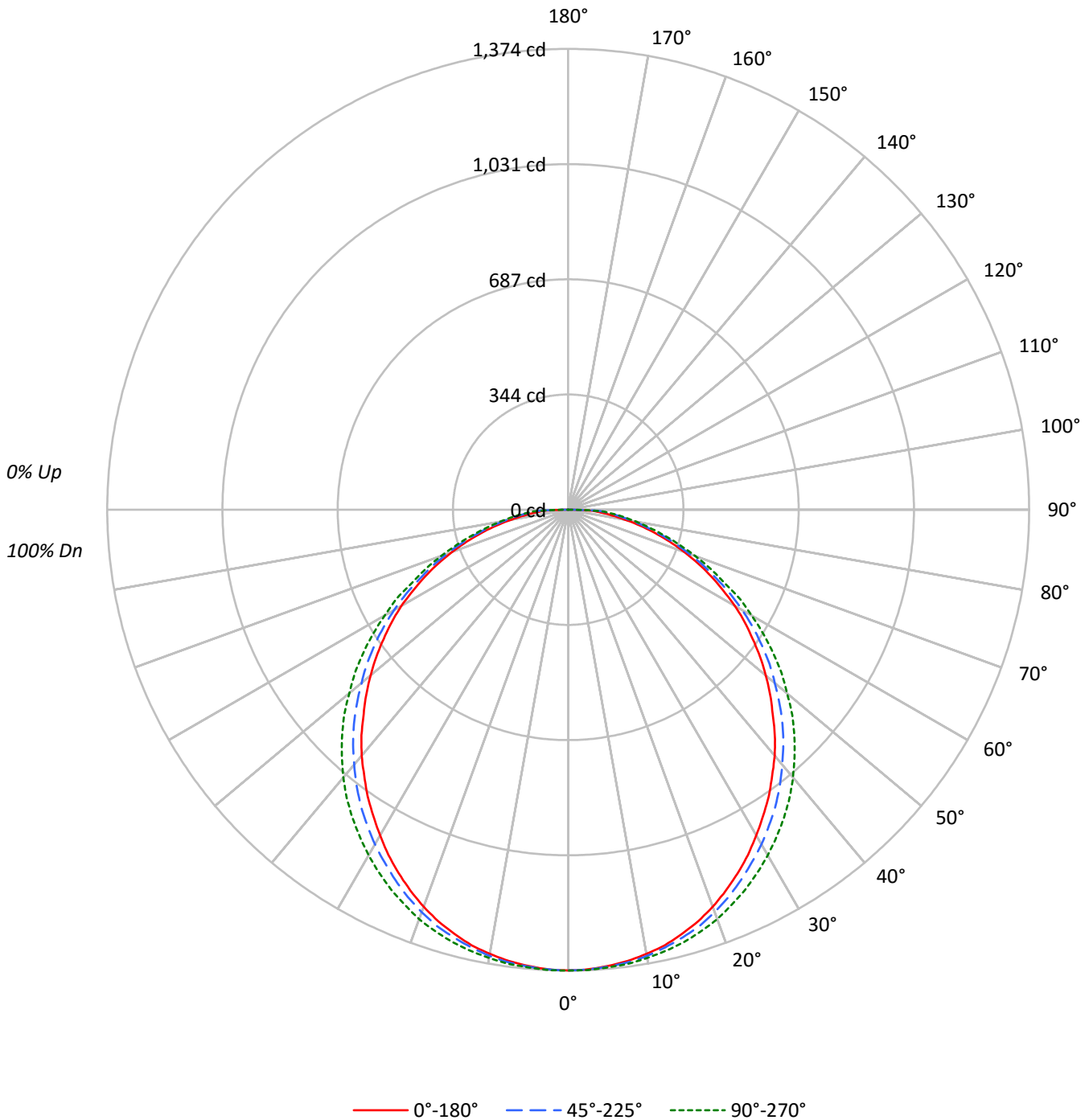
Lumens per Lamp: N/A  
Luminaire Lumens: 3984.8 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 35.2  
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	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°	1849	1849	1849
5°	1838	1833	1837
10°	1824	1818	1828
15°	1804	1796	1818
20°	1777	1771	1806
25°	1741	1737	1786
30°	1701	1703	1763
35°	1663	1667	1740
40°	1625	1623	1711
45°	1575	1580	1674
50°	1533	1523	1622
55°	1487	1468	1564
60°	1441	1398	1486
65°	1375	1309	1382
70°	1295	1214	1287
75°	1203	1110	1175
80°	1078	1005	1079
85°	1019	955	1032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	3.3
10°-20°	372.5	9.3
20°-30°	562.2	14.1
30°-40°	674.8	16.9
40°-50°	698.3	17.5
50°-60°	632.7	15.9
60°-70°	487.4	12.2
70°-80°	301.6	7.6
80°-90°	125.3	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°	1064.7	26.7
0°-40°	1739.5	43.7
0°-60°	3070.5	77.1
0°-90°	3984.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1366	1366	1368	1368	1370	130
15°	1310	1312	1320	1328	1334	369
25°	1196	1200	1218	1239	1250	551
35°	1042	1051	1078	1107	1121	652
45°	862	874	904	937	953	667
55°	671	682	705	736	746	601
65°	470	474	489	510	512	465
75°	267	274	284	296	296	283
85°	97	108	124	133	130	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1371.8	1371.8	1371.8	1371.8	1373.9
5°	1365.6	1365.6	1367.7	1367.7	1369.7
7.5°	1357.3	1357.3	1361.4	1361.4	1365.6
10°	1344.9	1346.9	1351.1	1353.2	1357.3
12.5°	1330.4	1330.4	1336.6	1342.8	1346.9
15°	1309.6	1311.7	1320.0	1328.3	1334.5
17.5°	1286.8	1288.9	1301.4	1309.6	1317.9
20°	1259.9	1262.0	1276.5	1288.9	1299.3
22.5°	1228.8	1233.0	1249.5	1266.1	1274.4
25°	1195.7	1199.8	1218.5	1239.2	1249.5
27.5°	1160.4	1166.7	1185.3	1208.1	1220.5
30°	1121.1	1129.4	1152.2	1177.0	1189.5
32.5°	1081.7	1090.0	1114.9	1143.9	1156.3
35°	1042.3	1050.6	1077.6	1106.6	1121.1
37.5°	998.8	1007.1	1036.1	1067.2	1083.8
40°	957.4	965.7	992.6	1027.8	1042.3
42.5°	911.8	920.1	949.1	982.2	998.8
45°	862.0	874.5	903.5	936.6	953.2
47.5°	816.5	826.8	853.8	889.0	905.6
50°	768.8	779.2	804.0	839.2	851.7
52.5°	721.1	731.5	756.4	789.5	801.9
55°	671.4	681.8	704.6	735.6	746.0
57.5°	623.7	632.0	652.7	681.8	690.0
60°	574.0	582.3	598.9	625.8	632.0
62.5°	520.1	526.3	545.0	569.9	578.1
65°	470.4	474.5	489.0	509.8	511.8
67.5°	418.6	422.7	437.2	451.7	458.0
70°	366.8	373.0	383.4	397.9	402.0
72.5°	317.0	323.3	333.6	346.1	348.1
75°	267.3	273.5	283.9	296.3	296.3
77.5°	219.7	225.9	238.3	248.7	248.7
80°	172.0	182.4	194.8	205.1	205.1
82.5°	132.6	140.9	157.5	165.8	165.8
85°	97.4	107.8	124.3	132.6	130.5
87.5°	70.5	80.8	95.3	101.5	99.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)