

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: P383844

Luminaire Tested: **24ID-40-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383844
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-L840-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

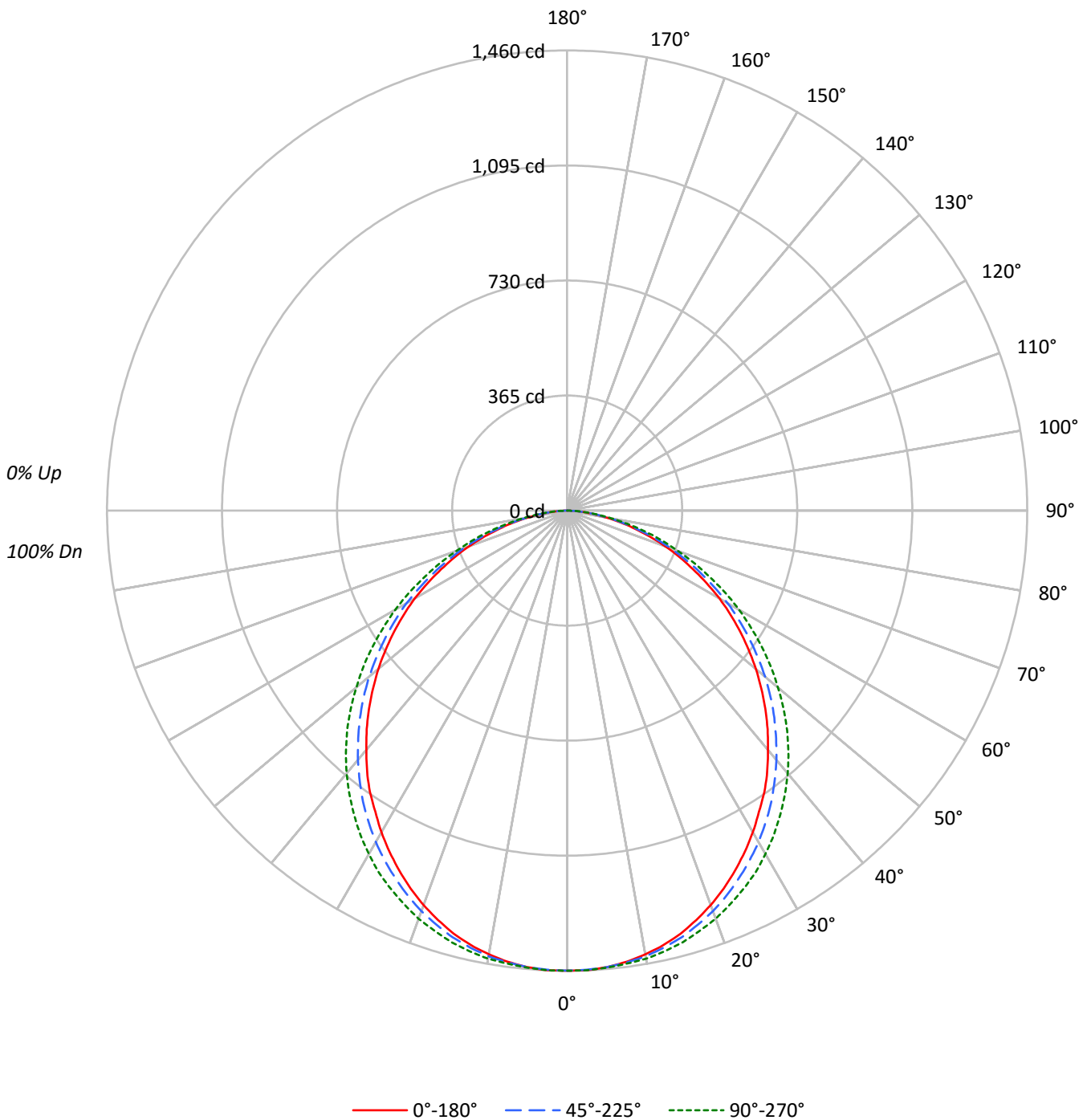
Lumens per Lamp: N/A
Luminaire Lumens: 3964.7 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1964	1964	1964
5°	1964	1964	1966
10°	1954	1962	1973
15°	1936	1953	1975
20°	1907	1936	1973
25°	1871	1913	1966
30°	1831	1887	1955
35°	1792	1854	1936
40°	1741	1815	1913
45°	1693	1768	1878
50°	1636	1716	1828
55°	1572	1651	1768
60°	1503	1583	1696
65°	1403	1486	1587
70°	1303	1373	1467
75°	1161	1223	1327
80°	973	1020	1113
85°	739	739	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.5
10°-20°	395.3	10.0
20°-30°	594.4	15.0
30°-40°	707.2	17.8
40°-50°	719.5	18.1
50°-60°	633.2	16.0
60°-70°	464.5	11.7
70°-80°	252.1	6.4
80°-90°	60.2	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°	1128.0	28.4
0°-40°	1835.1	46.3
0°-60°	3187.9	80.4
0°-90°	3964.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3964.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1454	1452	1454	1454	1456	138
15°	1390	1392	1402	1410	1418	392
25°	1260	1268	1288	1310	1324	580
35°	1091	1099	1129	1163	1179	681
45°	890	897	929	969	987	686
55°	670	680	704	738	754	599
65°	441	449	467	487	499	438
75°	223	227	235	247	255	237
85°	48	48	48	52	54	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.8	1459.8	1459.8	1459.8	1459.8
2.5°	1459.8	1457.8	1457.8	1457.8	1459.8
5°	1453.9	1451.9	1453.9	1453.9	1455.8
7.5°	1443.9	1441.9	1445.9	1447.9	1449.9
10°	1429.9	1429.9	1435.9	1439.9	1443.9
12.5°	1412.0	1414.0	1419.9	1425.9	1431.9
15°	1390.0	1392.0	1402.0	1410.0	1418.0
17.5°	1362.1	1366.1	1378.1	1390.0	1398.0
20°	1332.2	1338.2	1352.1	1368.1	1378.1
22.5°	1298.3	1306.3	1322.2	1342.2	1352.1
25°	1260.4	1268.4	1288.3	1310.3	1324.2
27.5°	1220.5	1230.5	1252.4	1278.4	1294.3
30°	1178.6	1188.6	1214.5	1242.5	1258.4
32.5°	1132.8	1144.7	1172.7	1204.6	1220.5
35°	1090.9	1098.9	1128.8	1162.7	1178.6
37.5°	1043.0	1053.0	1080.9	1116.8	1134.8
40°	991.2	1001.1	1033.1	1069.0	1088.9
42.5°	941.3	949.3	981.2	1021.1	1039.0
45°	889.5	897.4	929.3	969.2	987.2
47.5°	835.6	845.6	875.5	913.4	931.3
50°	781.8	789.7	819.7	855.6	873.5
52.5°	725.9	733.9	761.8	797.7	815.7
55°	670.1	680.1	704.0	737.9	753.8
57.5°	614.2	624.2	646.2	678.1	692.0
60°	558.4	566.4	588.3	616.2	630.2
62.5°	498.6	504.6	526.5	554.4	566.4
65°	440.7	448.7	466.7	486.6	498.6
67.5°	386.9	390.9	406.8	428.8	436.8
70°	331.1	335.0	349.0	367.0	372.9
72.5°	275.2	281.2	291.2	307.1	315.1
75°	223.4	227.4	235.3	247.3	255.3
77.5°	173.5	175.5	181.5	191.5	197.4
80°	125.6	127.6	131.6	139.6	143.6
82.5°	83.8	85.8	87.7	91.7	95.7
85°	47.9	47.9	47.9	51.9	53.8
87.5°	17.9	16.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)