

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: P383840

Luminaire Tested: **24ID-35-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383840
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-35-L840-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

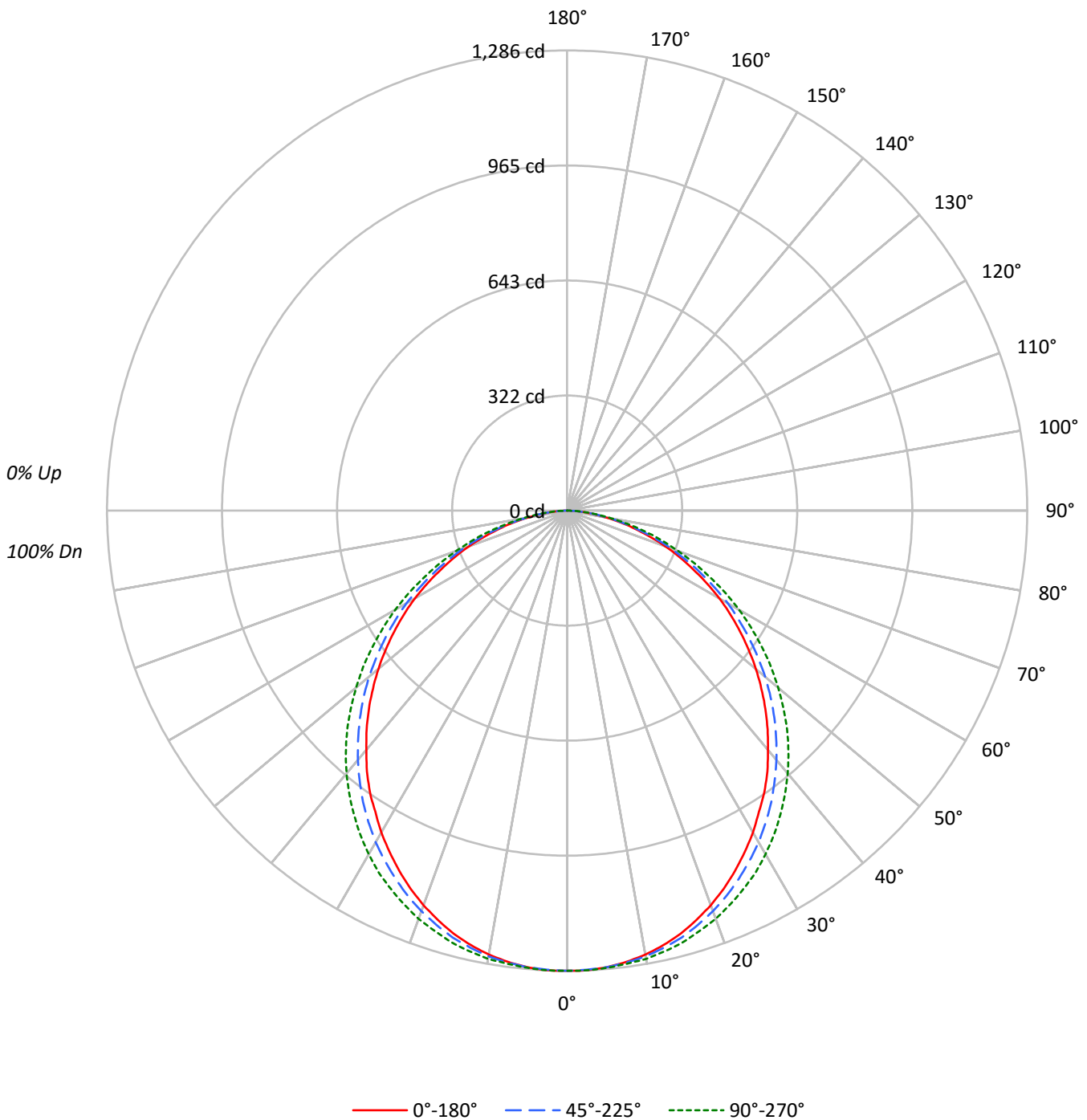
Lumens per Lamp: N/A
Luminaire Lumens: 3492.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.2
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°	1730	1730	1730
5°	1730	1730	1732
10°	1721	1728	1738
15°	1706	1721	1740
20°	1681	1706	1738
25°	1648	1685	1732
30°	1613	1662	1723
35°	1579	1634	1706
40°	1534	1599	1685
45°	1491	1558	1655
50°	1442	1512	1611
55°	1385	1455	1558
60°	1324	1395	1494
65°	1236	1309	1398
70°	1148	1210	1293
75°	1023	1078	1169
80°	858	899	980
85°	651	651	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.5
10°-20°	348.3	10.0
20°-30°	523.7	15.0
30°-40°	623.0	17.8
40°-50°	633.9	18.1
50°-60°	557.9	16.0
60°-70°	409.2	11.7
70°-80°	222.1	6.4
80°-90°	53.0	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°	993.7	28.4
0°-40°	1616.7	46.3
0°-60°	2808.5	80.4
0°-90°	3492.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3492.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1281	1279	1281	1281	1283	122
15°	1225	1226	1235	1242	1249	345
25°	1110	1117	1135	1154	1167	511
35°	961	968	994	1024	1038	600
45°	784	791	819	854	870	604
55°	590	599	620	650	664	528
65°	388	395	411	429	439	386
75°	197	200	207	218	225	209
85°	42	42	42	46	47	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.1	1286.1	1286.1	1286.1	1286.1
2.5°	1286.1	1284.4	1284.4	1284.4	1286.1
5°	1280.8	1279.1	1280.8	1280.8	1282.6
7.5°	1272.1	1270.3	1273.8	1275.6	1277.3
10°	1259.8	1259.8	1265.0	1268.5	1272.1
12.5°	1243.9	1245.7	1251.0	1256.2	1261.5
15°	1224.6	1226.4	1235.2	1242.2	1249.2
17.5°	1200.0	1203.5	1214.1	1224.6	1231.6
20°	1173.7	1178.9	1191.2	1205.3	1214.1
22.5°	1143.8	1150.8	1164.9	1182.5	1191.2
25°	1110.4	1117.4	1135.0	1154.3	1166.6
27.5°	1075.3	1084.1	1103.4	1126.2	1140.3
30°	1038.4	1047.2	1070.0	1094.6	1108.7
32.5°	998.0	1008.5	1033.1	1061.2	1075.3
35°	961.1	968.1	994.5	1024.3	1038.4
37.5°	918.9	927.7	952.3	983.9	999.7
40°	873.2	882.0	910.1	941.7	959.3
42.5°	829.3	836.3	864.4	899.6	915.4
45°	783.6	790.6	818.8	853.9	869.7
47.5°	736.2	745.0	771.3	804.7	820.5
50°	688.7	695.8	722.1	753.7	769.6
52.5°	639.5	646.6	671.2	702.8	718.6
55°	590.3	599.1	620.2	650.1	664.1
57.5°	541.2	549.9	569.3	597.4	609.7
60°	492.0	499.0	518.3	542.9	555.2
62.5°	439.2	444.5	463.8	488.4	499.0
65°	388.3	395.3	411.1	428.7	439.2
67.5°	340.9	344.4	358.4	377.8	384.8
70°	291.7	295.2	307.5	323.3	328.6
72.5°	242.5	247.7	256.5	270.6	277.6
75°	196.8	200.3	207.3	217.9	224.9
77.5°	152.9	154.6	159.9	168.7	173.9
80°	110.7	112.4	116.0	123.0	126.5
82.5°	73.8	75.6	77.3	80.8	84.3
85°	42.2	42.2	42.2	45.7	47.4
87.5°	15.8	14.1	14.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)