

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: P385084

Luminaire Tested: **14ID-45-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-45-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

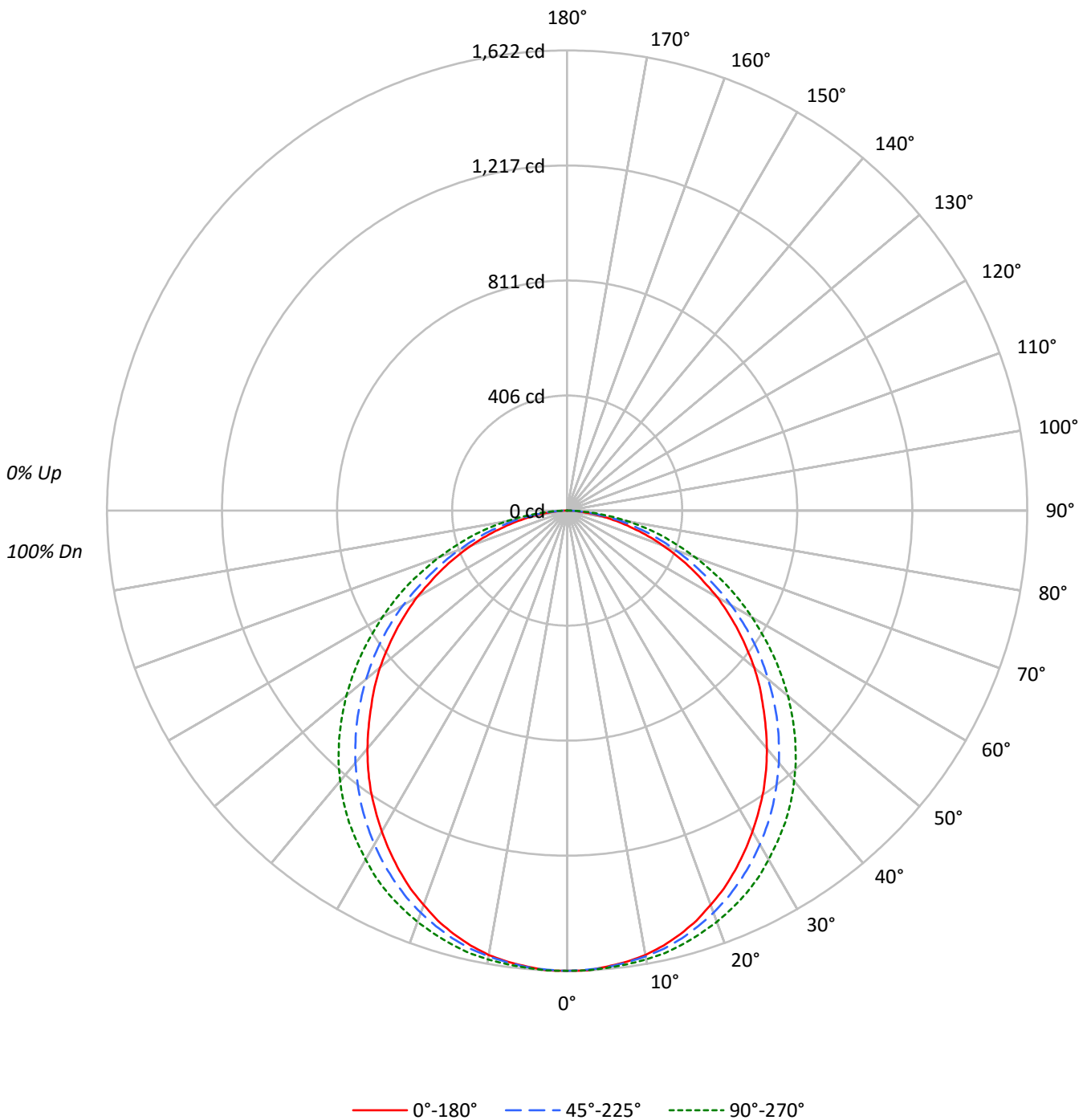
Lumens per Lamp: N/A
Luminaire Lumens: 4504.4 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.5
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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4366	4366	4366
5°	4358	4364	4370
10°	4346	4359	4389
15°	4305	4349	4406
20°	4236	4320	4418
25°	4156	4277	4426
30°	4060	4222	4413
35°	3963	4158	4404
40°	3847	4079	4374
45°	3718	3986	4324
50°	3605	3872	4252
55°	3454	3752	4157
60°	3289	3595	4048
65°	3067	3386	3935
70°	2825	3182	3772
75°	2504	2953	3614
80°	2112	2641	3346
85°	1544	2035	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.4
10°-20°	440.6	9.8
20°-30°	664.5	14.8
30°-40°	793.3	17.6
40°-50°	810.8	18.0
50°-60°	718.9	16.0
60°-70°	535.9	11.9
70°-80°	306.1	6.8
80°-90°	80.8	1.8
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°	1258.6	27.9
0°-40°	2051.9	45.6
0°-60°	3581.6	79.5
0°-90°	4504.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4504.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1613	1613	1616	1616	1618	153
15°	1545	1550	1561	1575	1581	435
25°	1400	1411	1441	1472	1490	644
35°	1206	1222	1266	1316	1341	754
45°	977	998	1048	1104	1136	755
55°	736	750	800	857	886	658
65°	482	493	532	586	618	477
75°	241	252	284	327	348	257
85°	50	52	66	82	86	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.3	1622.3	1622.3	1622.3	1622.3
2.5°	1622.3	1620.1	1620.1	1620.1	1622.3
5°	1613.2	1613.2	1615.5	1615.5	1617.8
7.5°	1604.2	1604.2	1606.4	1608.7	1613.2
10°	1590.5	1590.5	1595.1	1601.9	1606.4
12.5°	1570.1	1572.3	1581.4	1590.5	1597.3
15°	1545.1	1549.6	1561.0	1574.6	1581.4
17.5°	1515.5	1520.1	1536.0	1554.2	1563.3
20°	1479.2	1488.3	1508.7	1531.4	1542.8
22.5°	1442.8	1451.9	1476.9	1504.2	1517.8
25°	1399.7	1411.0	1440.6	1472.4	1490.5
27.5°	1354.2	1367.8	1401.9	1438.3	1458.7
30°	1306.5	1322.4	1358.8	1399.7	1420.1
32.5°	1256.5	1272.4	1313.3	1358.8	1381.5
35°	1206.5	1222.4	1265.6	1315.6	1340.6
37.5°	1152.0	1167.9	1213.3	1267.9	1295.1
40°	1095.2	1113.4	1161.1	1215.6	1245.1
42.5°	1036.1	1056.6	1104.3	1163.3	1192.9
45°	977.0	997.5	1047.5	1104.3	1136.1
47.5°	920.2	936.1	986.1	1045.2	1077.0
50°	861.2	874.8	924.8	983.8	1015.7
52.5°	797.5	815.7	863.4	922.5	952.0
55°	736.2	749.8	799.8	856.6	886.1
57.5°	672.6	686.2	733.9	790.7	818.0
60°	611.2	624.8	668.0	724.8	752.1
62.5°	543.0	556.7	599.9	658.9	686.2
65°	481.7	493.1	531.7	586.2	618.0
67.5°	420.4	431.7	468.1	520.3	545.3
70°	359.0	368.1	404.4	452.2	479.4
72.5°	299.9	309.0	345.4	388.5	411.3
75°	240.8	252.2	284.0	327.2	347.6
77.5°	186.3	197.7	224.9	263.6	281.7
80°	136.3	145.4	170.4	200.0	215.9
82.5°	90.9	97.7	115.9	140.9	152.2
85°	50.0	52.3	65.9	81.8	86.3
87.5°	20.4	20.4	25.0	27.3	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)