

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: P385252

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385252
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: 14ID-45-L840-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

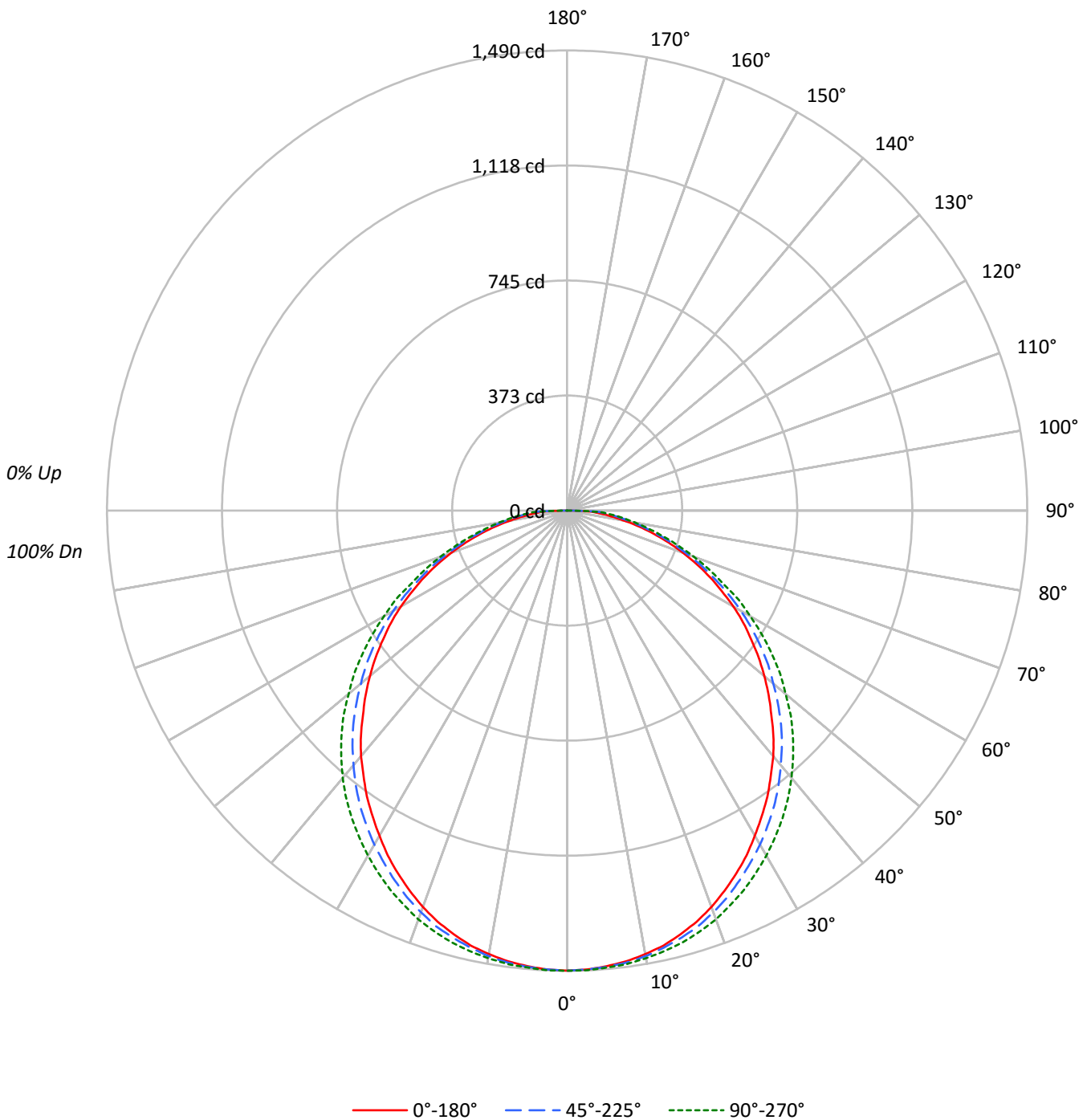
Lumens per Lamp: N/A
Luminaire Lumens: 4320.7 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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	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°	4009	4009	4009
5°	3985	3955	3954
10°	3955	3902	3907
15°	3912	3836	3859
20°	3854	3762	3804
25°	3776	3671	3733
30°	3688	3578	3656
35°	3608	3479	3576
40°	3523	3365	3483
45°	3415	3249	3372
50°	3325	3105	3225
55°	3224	2961	3065
60°	3124	2785	2862
65°	2981	2566	2603
70°	2808	2328	2352
75°	2608	2065	2060
80°	2338	1783	1772
85°	2209	1551	1505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.3
10°-20°	403.9	9.3
20°-30°	609.6	14.1
30°-40°	731.7	16.9
40°-50°	757.2	17.5
50°-60°	686.0	15.9
60°-70°	528.5	12.2
70°-80°	327.0	7.6
80°-90°	135.8	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°	1154.5	26.7
0°-40°	1886.1	43.7
0°-60°	3329.3	77.1
0°-90°	4320.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1481	1481	1483	1483	1485	141
15°	1420	1422	1431	1440	1447	400
25°	1296	1301	1321	1344	1355	597
35°	1130	1139	1168	1200	1216	707
45°	935	948	980	1016	1034	723
55°	728	739	764	798	809	652
65°	510	514	530	553	555	504
75°	290	297	308	321	321	307
85°	106	117	135	144	142	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.7	1489.7	1489.7	1489.7	1489.7
2.5°	1487.4	1487.4	1487.4	1487.4	1489.7
5°	1480.7	1480.7	1482.9	1482.9	1485.2
7.5°	1471.7	1471.7	1476.2	1476.2	1480.7
10°	1458.2	1460.5	1465.0	1467.2	1471.7
12.5°	1442.5	1442.5	1449.2	1456.0	1460.5
15°	1420.0	1422.3	1431.3	1440.3	1447.0
17.5°	1395.3	1397.6	1411.0	1420.0	1429.0
20°	1366.1	1368.4	1384.1	1397.6	1408.8
22.5°	1332.4	1336.9	1354.9	1372.9	1381.8
25°	1296.5	1301.0	1321.2	1343.6	1354.9
27.5°	1258.3	1265.0	1285.2	1309.9	1323.4
30°	1215.6	1224.6	1249.3	1276.2	1289.7
32.5°	1172.9	1181.9	1208.8	1240.3	1253.8
35°	1130.2	1139.2	1168.4	1199.8	1215.6
37.5°	1083.0	1092.0	1123.4	1157.1	1175.1
40°	1038.1	1047.1	1076.3	1114.5	1130.2
42.5°	988.6	997.6	1029.1	1065.0	1083.0
45°	934.7	948.2	979.6	1015.6	1033.6
47.5°	885.3	896.5	925.7	963.9	981.9
50°	833.6	844.8	871.8	910.0	923.5
52.5°	781.9	793.2	820.1	856.1	869.5
55°	728.0	739.2	763.9	797.6	808.9
57.5°	676.3	685.3	707.8	739.2	748.2
60°	622.4	631.4	649.4	678.6	685.3
62.5°	564.0	570.7	590.9	617.9	626.9
65°	510.0	514.5	530.3	552.7	555.0
67.5°	453.9	458.4	474.1	489.8	496.6
70°	397.7	404.4	415.7	431.4	435.9
72.5°	343.8	350.5	361.7	375.2	377.5
75°	289.8	296.6	307.8	321.3	321.3
77.5°	238.2	244.9	258.4	269.6	269.6
80°	186.5	197.7	211.2	222.4	222.4
82.5°	143.8	152.8	170.8	179.8	179.8
85°	105.6	116.8	134.8	143.8	141.6
87.5°	76.4	87.6	103.4	110.1	107.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)