

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: P385248

Luminaire Tested: **14ID-40-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385248
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-40-L840-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

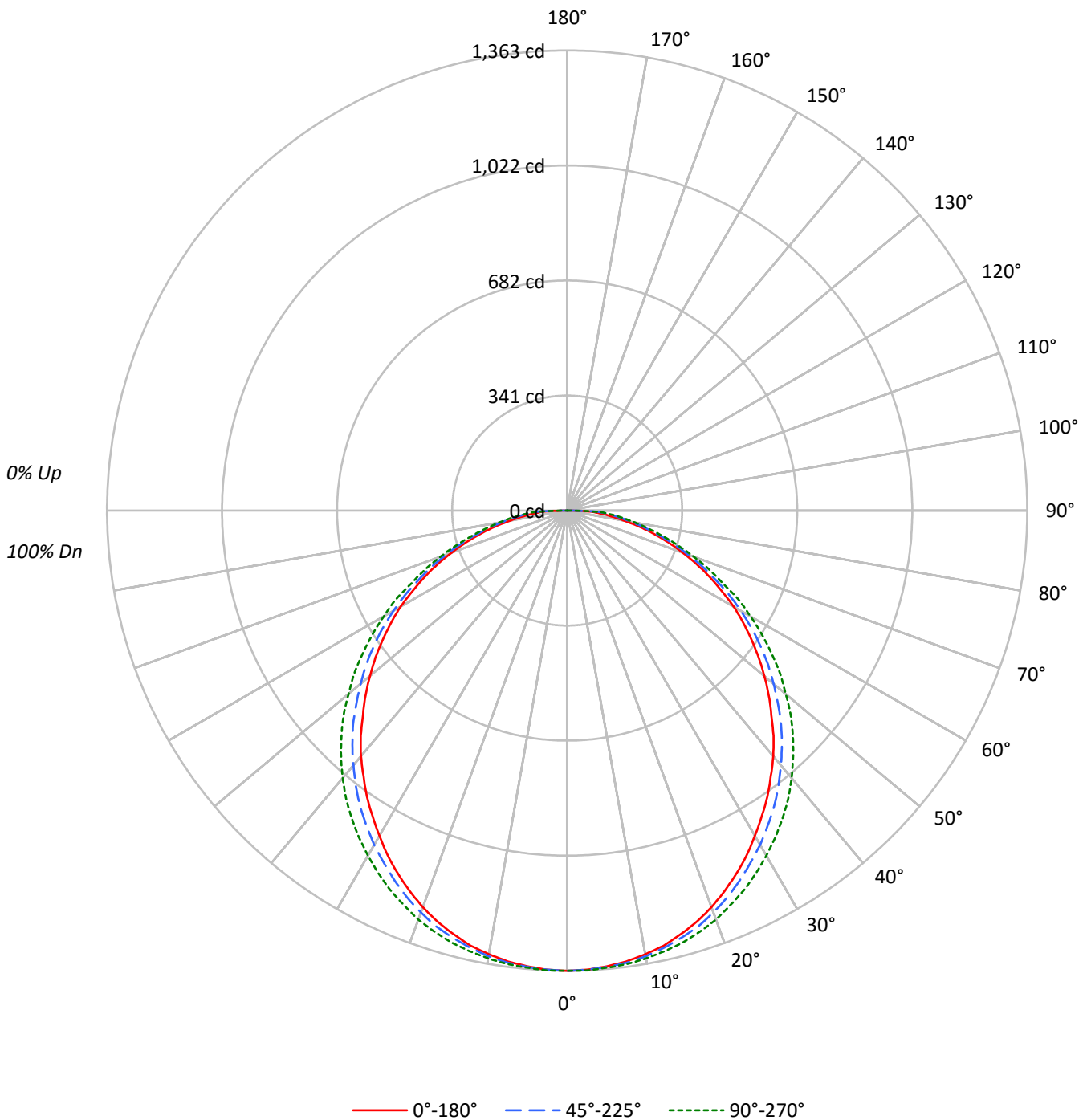
Lumens per Lamp: N/A
Luminaire Lumens: 3954.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.4
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°	3669	3669	3669
5°	3647	3619	3619
10°	3620	3570	3575
15°	3580	3510	3531
20°	3527	3443	3481
25°	3455	3359	3416
30°	3375	3274	3346
35°	3301	3184	3272
40°	3224	3079	3188
45°	3125	2974	3085
50°	3042	2841	2952
55°	2950	2710	2805
60°	2859	2548	2619
65°	2728	2348	2382
70°	2569	2131	2153
75°	2386	1890	1885
80°	2140	1632	1622
85°	2020	1420	1376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.3
10°-20°	369.7	9.3
20°-30°	557.8	14.1
30°-40°	669.6	16.9
40°-50°	692.9	17.5
50°-60°	627.8	15.9
60°-70°	483.7	12.2
70°-80°	299.3	7.6
80°-90°	124.3	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°	1056.5	26.7
0°-40°	1726.0	43.7
0°-60°	3046.7	77.1
0°-90°	3954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1355	1355	1357	1357	1359	129
15°	1300	1302	1310	1318	1324	366
25°	1186	1190	1209	1230	1240	546
35°	1034	1042	1069	1098	1112	647
45°	855	868	896	929	946	661
55°	666	676	699	730	740	597
65°	467	471	485	506	508	462
75°	265	271	282	294	294	281
85°	97	107	123	132	130	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1361.2	1361.2	1361.2	1361.2	1363.3
5°	1355.0	1355.0	1357.1	1357.1	1359.1
7.5°	1346.8	1346.8	1350.9	1350.9	1355.0
10°	1334.5	1336.5	1340.6	1342.7	1346.8
12.5°	1320.1	1320.1	1326.2	1332.4	1336.5
15°	1299.5	1301.6	1309.8	1318.0	1324.2
17.5°	1276.9	1279.0	1291.3	1299.5	1307.7
20°	1250.2	1252.2	1266.6	1279.0	1289.2
22.5°	1219.3	1223.4	1239.9	1256.3	1264.6
25°	1186.4	1190.5	1209.0	1229.6	1239.9
27.5°	1151.5	1157.6	1176.1	1198.8	1211.1
30°	1112.4	1120.6	1143.2	1167.9	1180.3
32.5°	1073.3	1081.6	1106.2	1135.0	1147.4
35°	1034.3	1042.5	1069.2	1098.0	1112.4
37.5°	991.1	999.3	1028.1	1058.9	1075.4
40°	950.0	958.2	984.9	1019.9	1034.3
42.5°	904.7	913.0	941.7	974.6	991.1
45°	855.4	867.7	896.5	929.4	945.9
47.5°	810.1	820.4	847.2	882.1	898.6
50°	762.8	773.1	797.8	832.8	845.1
52.5°	715.6	725.8	750.5	783.4	795.7
55°	666.2	676.5	699.1	730.0	740.2
57.5°	618.9	627.1	647.7	676.5	684.7
60°	569.6	577.8	594.2	621.0	627.1
62.5°	516.1	522.3	540.8	565.5	573.7
65°	466.8	470.9	485.3	505.8	507.9
67.5°	415.4	419.5	433.9	448.3	454.4
70°	363.9	370.1	380.4	394.8	398.9
72.5°	314.6	320.8	331.0	343.4	345.4
75°	265.2	271.4	281.7	294.0	294.0
77.5°	218.0	224.1	236.5	246.7	246.7
80°	170.7	180.9	193.3	203.6	203.6
82.5°	131.6	139.8	156.3	164.5	164.5
85°	96.6	106.9	123.4	131.6	129.5
87.5°	69.9	80.2	94.6	100.8	98.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)