

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: P385249

Luminaire Tested: **14ID-40-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385249
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-L850-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

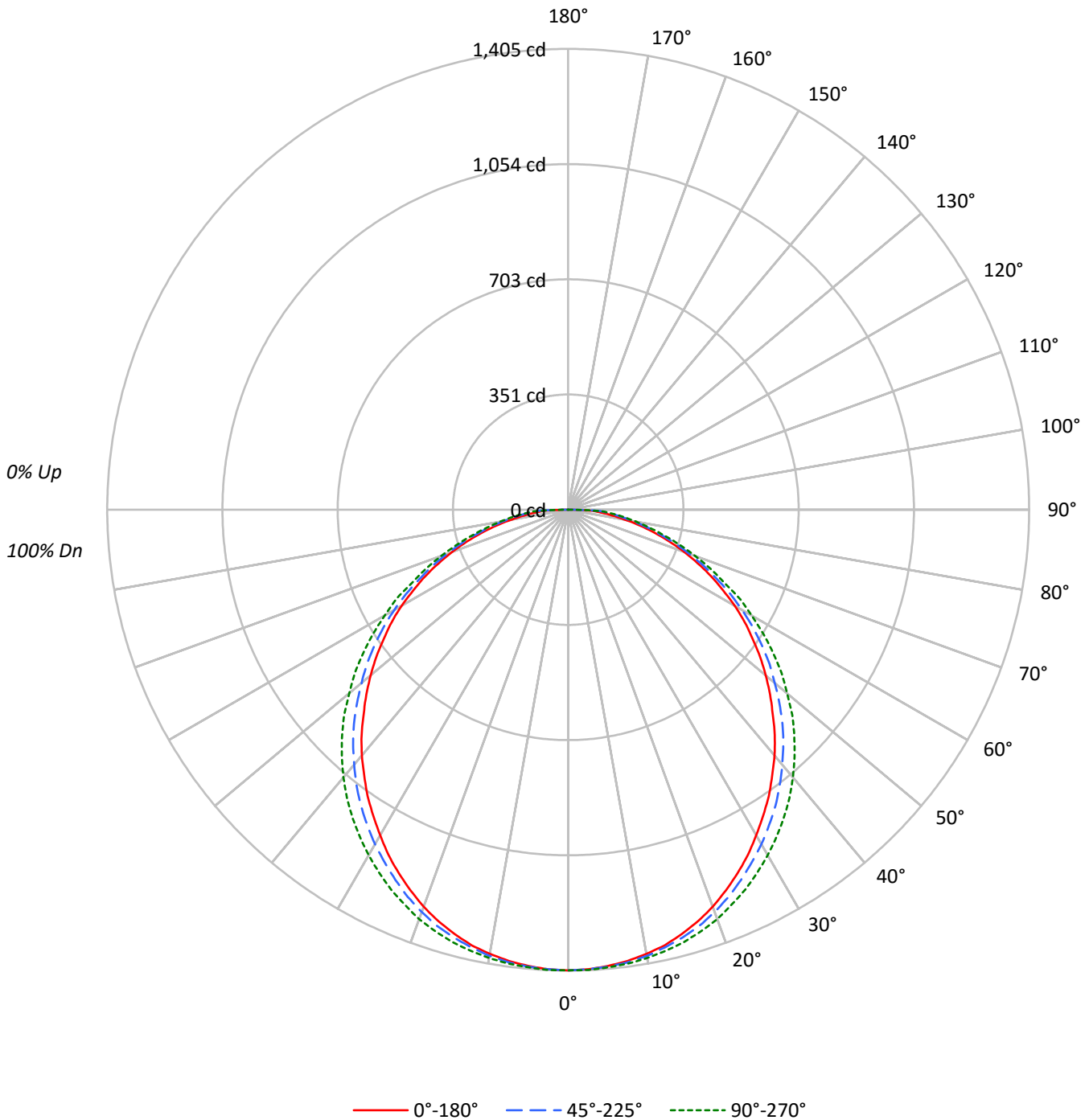
Lumens per Lamp: N/A
Luminaire Lumens: 4073.8 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): 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°	3780	3780	3780
5°	3758	3729	3728
10°	3730	3679	3683
15°	3689	3617	3638
20°	3633	3547	3586
25°	3560	3461	3520
30°	3478	3373	3447
35°	3401	3280	3372
40°	3322	3173	3284
45°	3220	3064	3179
50°	3135	2927	3041
55°	3039	2792	2890
60°	2946	2625	2698
65°	2811	2419	2455
70°	2647	2195	2218
75°	2459	1947	1942
80°	2204	1681	1671
85°	2083	1462	1419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.3
10°-20°	380.9	9.3
20°-30°	574.7	14.1
30°-40°	689.9	16.9
40°-50°	713.9	17.5
50°-60°	646.8	15.9
60°-70°	498.3	12.2
70°-80°	308.3	7.6
80°-90°	128.1	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°	1088.5	26.7
0°-40°	1778.4	43.7
0°-60°	3139.1	77.1
0°-90°	4073.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1405	1405	1405	1405	1405	
5°	1396	1396	1398	1398	1400	133
15°	1339	1341	1350	1358	1364	378
25°	1222	1227	1246	1267	1278	563
35°	1066	1074	1102	1131	1146	666
45°	881	894	924	958	974	681
55°	686	697	720	752	763	615
65°	481	485	500	521	523	475
75°	273	280	290	303	303	289
85°	100	110	127	136	134	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.6	1404.6	1404.6	1404.6	1404.6
2.5°	1402.4	1402.4	1402.4	1402.4	1404.6
5°	1396.1	1396.1	1398.2	1398.2	1400.3
7.5°	1387.6	1387.6	1391.9	1391.9	1396.1
10°	1374.9	1377.0	1381.3	1383.4	1387.6
12.5°	1360.1	1360.1	1366.4	1372.8	1377.0
15°	1338.9	1341.0	1349.5	1358.0	1364.3
17.5°	1315.6	1317.7	1330.4	1338.9	1347.4
20°	1288.0	1290.2	1305.0	1317.7	1328.3
22.5°	1256.3	1260.5	1277.5	1294.4	1302.9
25°	1222.4	1226.6	1245.7	1266.9	1277.5
27.5°	1186.4	1192.7	1211.8	1235.1	1247.8
30°	1146.1	1154.6	1177.9	1203.3	1216.0
32.5°	1105.9	1114.3	1139.8	1169.4	1182.1
35°	1065.6	1074.1	1101.6	1131.3	1146.1
37.5°	1021.1	1029.6	1059.2	1091.0	1108.0
40°	978.7	987.2	1014.8	1050.8	1065.6
42.5°	932.1	940.6	970.3	1004.2	1021.1
45°	881.3	894.0	923.7	957.6	974.5
47.5°	834.7	845.3	872.8	908.8	925.8
50°	786.0	796.6	822.0	858.0	870.7
52.5°	737.2	747.8	773.3	807.1	819.9
55°	686.4	697.0	720.3	752.1	762.7
57.5°	637.7	646.1	667.3	697.0	705.5
60°	586.8	595.3	612.2	639.8	646.1
62.5°	531.7	538.1	557.2	582.6	591.1
65°	480.9	485.1	500.0	521.2	523.3
67.5°	427.9	432.2	447.0	461.8	468.2
70°	375.0	381.3	391.9	406.8	411.0
72.5°	324.1	330.5	341.1	353.8	355.9
75°	273.3	279.6	290.2	302.9	302.9
77.5°	224.6	230.9	243.6	254.2	254.2
80°	175.8	186.4	199.1	209.7	209.7
82.5°	135.6	144.1	161.0	169.5	169.5
85°	99.6	110.2	127.1	135.6	133.5
87.5°	72.0	82.6	97.5	103.8	101.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)