

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: P385232

Luminaire Tested: **14ID-20-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385232
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-20-L840-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

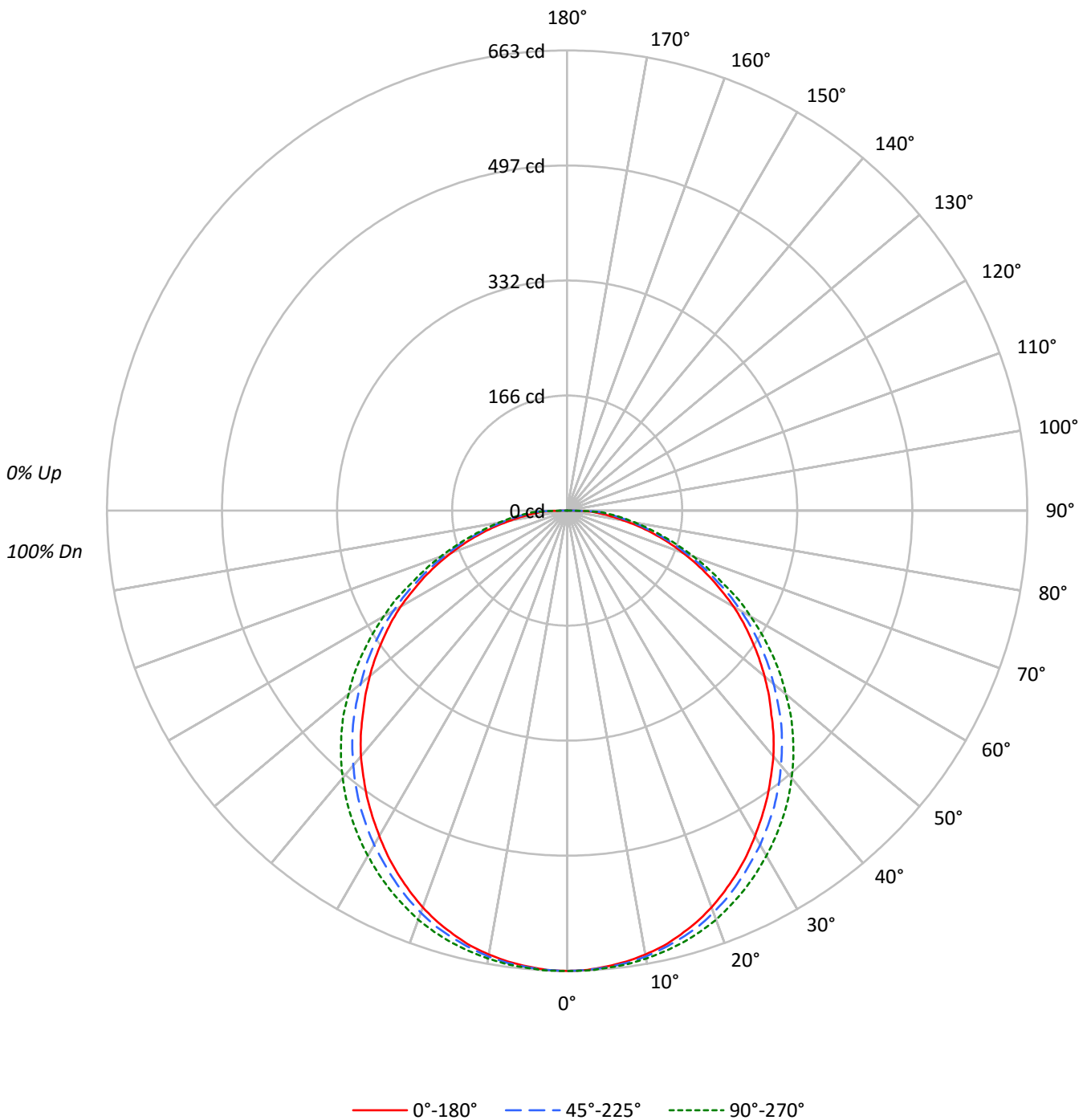
Lumens per Lamp: N/A
Luminaire Lumens: 1924.1 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.5
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°	1785	1785	1785
5°	1775	1761	1761
10°	1762	1738	1740
15°	1742	1708	1718
20°	1716	1675	1694
25°	1681	1634	1662
30°	1642	1593	1628
35°	1607	1549	1592
40°	1569	1498	1551
45°	1521	1447	1501
50°	1480	1382	1436
55°	1436	1319	1365
60°	1391	1240	1275
65°	1327	1142	1159
70°	1250	1037	1047
75°	1162	920	917
80°	1040	794	789
85°	983	690	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.3
10°-20°	179.9	9.3
20°-30°	271.5	14.1
30°-40°	325.8	16.9
40°-50°	337.2	17.5
50°-60°	305.5	15.9
60°-70°	235.3	12.2
70°-80°	145.7	7.6
80°-90°	60.5	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°	514.1	26.7
0°-40°	839.9	43.7
0°-60°	1482.6	77.1
0°-90°	1924.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1924.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	659	659	660	660	661	63
15°	632	633	637	641	644	178
25°	577	579	588	598	603	266
35°	503	507	520	534	541	315
45°	416	422	436	452	460	322
55°	324	329	340	355	360	290
65°	227	229	236	246	247	225
75°	129	132	137	143	143	137
85°	47	52	60	64	63	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.4	663.4	663.4	663.4	663.4
2.5°	662.4	662.4	662.4	662.4	663.4
5°	659.4	659.4	660.4	660.4	661.4
7.5°	655.4	655.4	657.4	657.4	659.4
10°	649.4	650.4	652.4	653.4	655.4
12.5°	642.4	642.4	645.4	648.4	650.4
15°	632.4	633.4	637.4	641.4	644.4
17.5°	621.4	622.4	628.4	632.4	636.4
20°	608.4	609.4	616.4	622.4	627.4
22.5°	593.3	595.4	603.4	611.4	615.4
25°	577.3	579.3	588.3	598.4	603.4
27.5°	560.3	563.3	572.3	583.3	589.3
30°	541.3	545.3	556.3	568.3	574.3
32.5°	522.3	526.3	538.3	552.3	558.3
35°	503.3	507.3	520.3	534.3	541.3
37.5°	482.3	486.3	500.3	515.3	523.3
40°	462.3	466.3	479.3	496.3	503.3
42.5°	440.3	444.3	458.3	474.3	482.3
45°	416.2	422.2	436.3	452.3	460.3
47.5°	394.2	399.2	412.2	429.3	437.3
50°	371.2	376.2	388.2	405.2	411.2
52.5°	348.2	353.2	365.2	381.2	387.2
55°	324.2	329.2	340.2	355.2	360.2
57.5°	301.2	305.2	315.2	329.2	333.2
60°	277.2	281.2	289.2	302.2	305.2
62.5°	251.1	254.1	263.2	275.2	279.2
65°	227.1	229.1	236.1	246.1	247.1
67.5°	202.1	204.1	211.1	218.1	221.1
70°	177.1	180.1	185.1	192.1	194.1
72.5°	153.1	156.1	161.1	167.1	168.1
75°	129.1	132.1	137.1	143.1	143.1
77.5°	106.1	109.1	115.1	120.1	120.1
80°	83.0	88.1	94.1	99.1	99.1
82.5°	64.0	68.0	76.0	80.0	80.0
85°	47.0	52.0	60.0	64.0	63.0
87.5°	34.0	39.0	46.0	49.0	48.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)