

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: P385233

Luminaire Tested: **14ID-20-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385233
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-L850-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

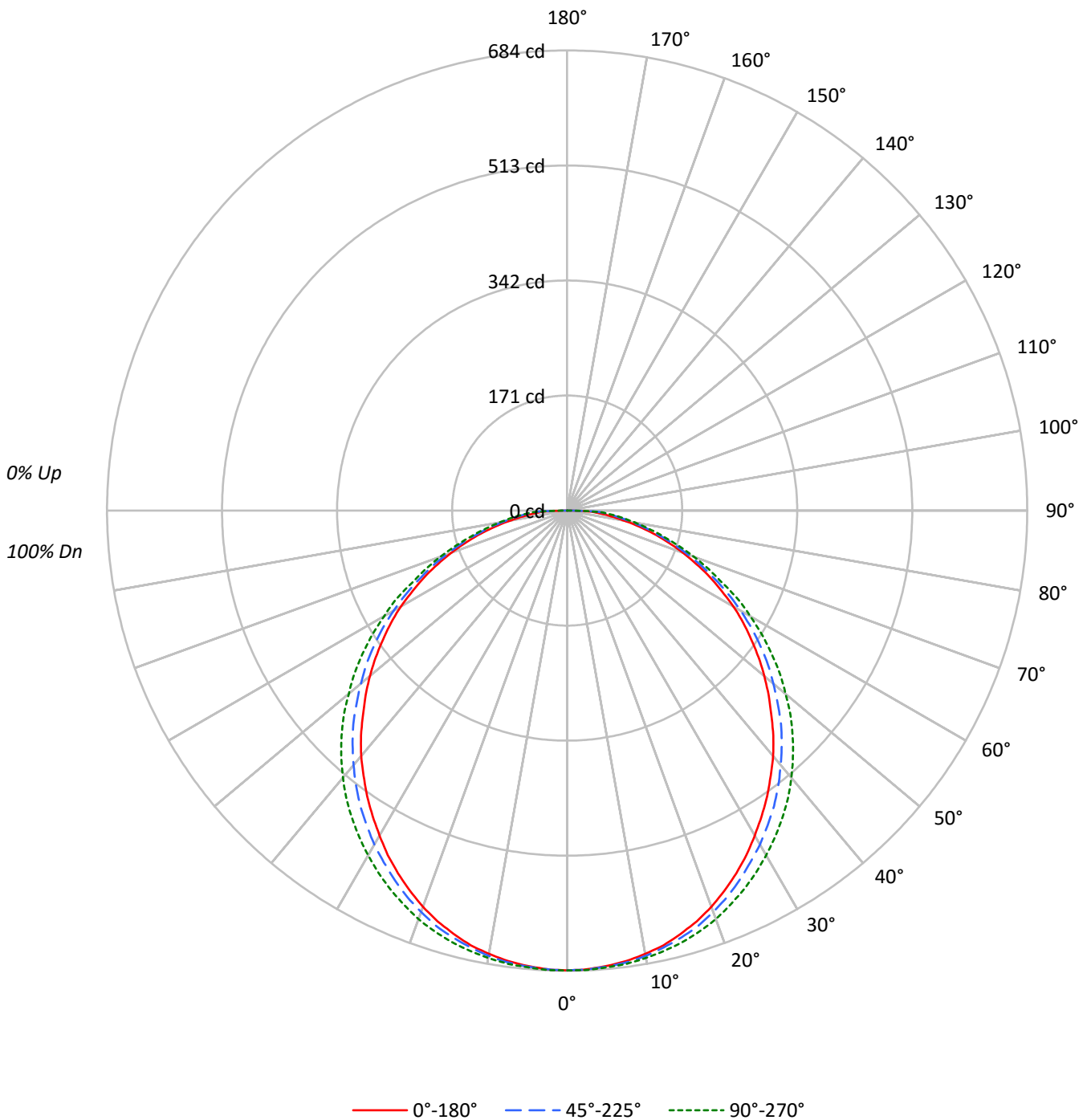
Lumens per Lamp: N/A
Luminaire Lumens: 1982.4 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (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°	1839	1839	1839
5°	1829	1815	1814
10°	1815	1790	1792
15°	1795	1760	1770
20°	1768	1726	1745
25°	1732	1684	1713
30°	1692	1641	1677
35°	1655	1596	1641
40°	1617	1544	1598
45°	1567	1491	1547
50°	1526	1424	1480
55°	1479	1359	1406
60°	1434	1277	1313
65°	1368	1177	1194
70°	1288	1068	1079
75°	1197	947	945
80°	1073	818	813
85°	1014	712	690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.3
10°-20°	185.3	9.3
20°-30°	279.7	14.1
30°-40°	335.7	16.9
40°-50°	347.4	17.5
50°-60°	314.7	15.9
60°-70°	242.5	12.2
70°-80°	150.1	7.6
80°-90°	62.3	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°	529.7	26.7
0°-40°	865.4	43.7
0°-60°	1527.5	77.1
0°-90°	1982.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	679	679	680	680	681	65
15°	652	653	657	661	664	184
25°	595	597	606	616	622	274
35°	518	523	536	550	558	324
45°	429	435	450	466	474	332
55°	334	339	350	366	371	299
65°	234	236	243	254	255	231
75°	133	136	141	147	147	141
85°	48	54	62	66	65	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.5	683.5	683.5	683.5	683.5
2.5°	682.5	682.5	682.5	682.5	683.5
5°	679.4	679.4	680.4	680.4	681.4
7.5°	675.2	675.2	677.3	677.3	679.4
10°	669.1	670.1	672.2	673.2	675.2
12.5°	661.8	661.8	664.9	668.0	670.1
15°	651.5	652.6	656.7	660.8	663.9
17.5°	640.2	641.2	647.4	651.5	655.7
20°	626.8	627.8	635.0	641.2	646.4
22.5°	611.3	613.4	621.6	629.9	634.0
25°	594.8	596.9	606.2	616.5	621.6
27.5°	577.3	580.4	589.7	601.0	607.2
30°	557.7	561.8	573.2	585.6	591.7
32.5°	538.1	542.3	554.6	569.1	575.2
35°	518.5	522.7	536.1	550.5	557.7
37.5°	496.9	501.0	515.5	530.9	539.2
40°	476.3	480.4	493.8	511.3	518.5
42.5°	453.6	457.7	472.2	488.6	496.9
45°	428.9	435.0	449.5	466.0	474.2
47.5°	406.2	411.3	424.7	442.3	450.5
50°	382.5	387.6	400.0	417.5	423.7
52.5°	358.8	363.9	376.3	392.8	399.0
55°	334.0	339.2	350.5	366.0	371.1
57.5°	310.3	314.4	324.7	339.2	343.3
60°	285.6	289.7	297.9	311.3	314.4
62.5°	258.8	261.9	271.1	283.5	287.6
65°	234.0	236.1	243.3	253.6	254.6
67.5°	208.2	210.3	217.5	224.7	227.8
70°	182.5	185.6	190.7	197.9	200.0
72.5°	157.7	160.8	166.0	172.2	173.2
75°	133.0	136.1	141.2	147.4	147.4
77.5°	109.3	112.4	118.6	123.7	123.7
80°	85.6	90.7	96.9	102.1	102.1
82.5°	66.0	70.1	78.3	82.5	82.5
85°	48.5	53.6	61.9	66.0	64.9
87.5°	35.1	40.2	47.4	50.5	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)