

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: P385230

Luminaire Tested: **14ID-20-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385230
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-L830-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

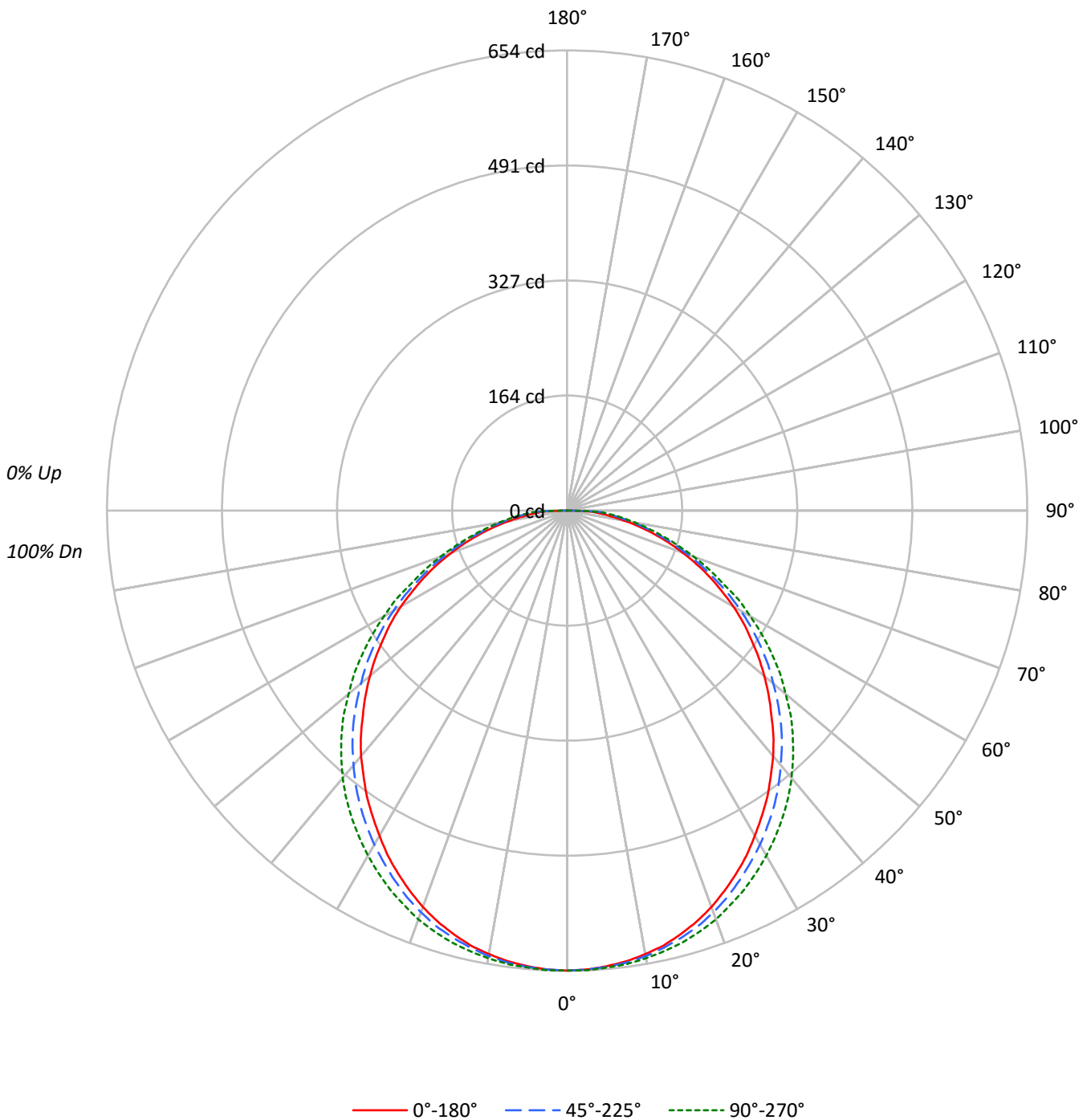
Lumens per Lamp: N/A
Luminaire Lumens: 1896.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.4
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°	1759	1759	1759
5°	1749	1736	1736
10°	1736	1713	1715
15°	1717	1684	1694
20°	1691	1651	1669
25°	1657	1611	1638
30°	1619	1570	1605
35°	1584	1527	1569
40°	1546	1477	1529
45°	1499	1426	1480
50°	1459	1363	1416
55°	1415	1300	1345
60°	1371	1222	1256
65°	1309	1126	1143
70°	1233	1022	1032
75°	1145	906	904
80°	1027	783	778
85°	970	681	660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.3
10°-20°	177.3	9.3
20°-30°	267.6	14.1
30°-40°	321.1	16.9
40°-50°	332.4	17.5
50°-60°	301.1	15.9
60°-70°	232.0	12.2
70°-80°	143.5	7.6
80°-90°	59.6	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°	506.7	26.7
0°-40°	827.9	43.7
0°-60°	1461.3	77.1
0°-90°	1896.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	650	650	651	651	652	62
15°	623	624	628	632	635	176
25°	569	571	580	590	595	262
35°	496	500	513	527	534	310
45°	410	416	430	446	454	317
55°	320	324	335	350	355	286
65°	224	226	233	243	244	221
75°	127	130	135	141	141	135
85°	46	51	59	63	62	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.8	653.8	653.8	653.8	653.8
2.5°	652.9	652.9	652.9	652.9	653.8
5°	649.9	649.9	650.9	650.9	651.9
7.5°	646.0	646.0	647.9	647.9	649.9
10°	640.0	641.0	643.0	644.0	646.0
12.5°	633.1	633.1	636.1	639.0	641.0
15°	623.3	624.3	628.2	632.1	635.1
17.5°	612.4	613.4	619.3	623.3	627.2
20°	599.6	600.6	607.5	613.4	618.3
22.5°	584.8	586.8	594.7	602.6	606.5
25°	569.0	571.0	579.9	589.7	594.7
27.5°	552.3	555.2	564.1	574.9	580.9
30°	533.5	537.5	548.3	560.2	566.1
32.5°	514.8	518.7	530.6	544.4	550.3
35°	496.1	500.0	512.8	526.6	533.5
37.5°	475.3	479.3	493.1	507.9	515.8
40°	455.6	459.6	472.4	489.1	496.1
42.5°	433.9	437.9	451.7	467.5	475.3
45°	410.3	416.2	430.0	445.8	453.6
47.5°	388.6	393.5	406.3	423.1	431.0
50°	365.9	370.8	382.6	399.4	405.3
52.5°	343.2	348.1	360.0	375.7	381.7
55°	319.5	324.5	335.3	350.1	355.0
57.5°	296.8	300.8	310.6	324.5	328.4
60°	273.2	277.1	285.0	297.8	300.8
62.5°	247.5	250.5	259.4	271.2	275.1
65°	223.9	225.8	232.7	242.6	243.6
67.5°	199.2	201.2	208.1	215.0	217.9
70°	174.6	177.5	182.4	189.3	191.3
72.5°	150.9	153.8	158.8	164.7	165.7
75°	127.2	130.2	135.1	141.0	141.0
77.5°	104.5	107.5	113.4	118.3	118.3
80°	81.9	86.8	92.7	97.6	97.6
82.5°	63.1	67.1	75.0	78.9	78.9
85°	46.4	51.3	59.2	63.1	62.1
87.5°	33.5	38.5	45.4	48.3	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)