

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: P384113

Luminaire Tested: **22ID-20-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-20-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

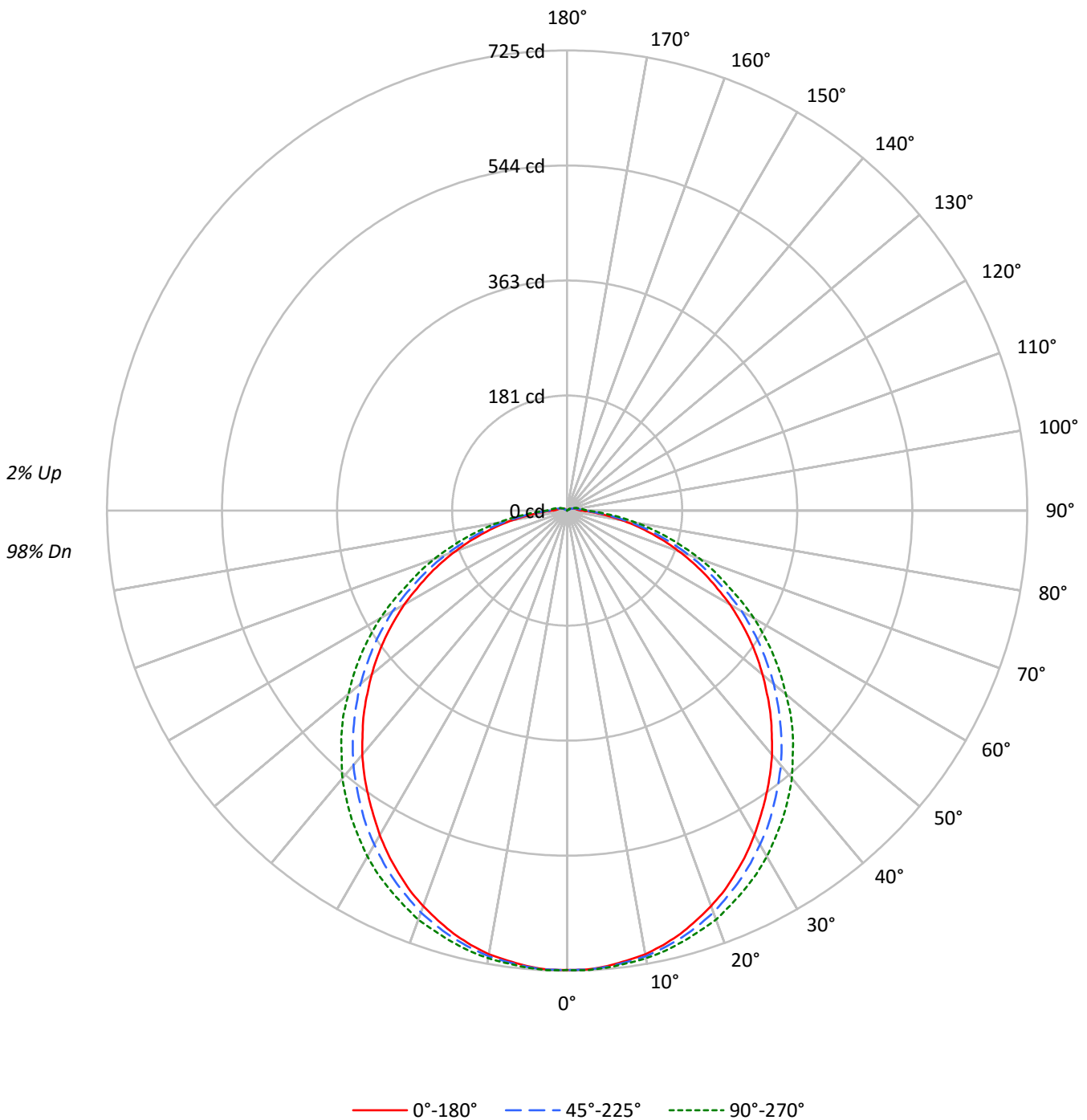
Lumens per Lamp: N/A
Luminaire Lumens: 2143.8 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 16.3
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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1939	1940	1945
10°	1925	1928	1943
15°	1902	1911	1937
20°	1870	1889	1935
25°	1833	1859	1921
30°	1791	1826	1909
35°	1745	1790	1891
40°	1704	1754	1870
45°	1656	1707	1838
50°	1604	1663	1795
55°	1550	1609	1757
60°	1489	1550	1708
65°	1410	1463	1626
70°	1320	1376	1573
75°	1213	1260	1487
80°	1089	1123	1390
85°	977	1002	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.2
10°-20°	196.5	9.2
20°-30°	296.7	13.8
30°-40°	355.5	16.6
40°-50°	367.5	17.1
50°-60°	332.8	15.5
60°-70°	257.5	12.0
70°-80°	158.2	7.4
80°-90°	62.9	2.9
90°-100°	22.9	1.1
100°-110°	14.1	0.7
110°-120°	7.2	0.3
120°-130°	3.1	0.1
130°-140°	0.2	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°	561.8	26.2
0°-40°	917.3	42.8
0°-60°	1617.6	75.5
0°-90°	2096.2	97.8
90°-120°	44.3	2.1
90°-150°	47.6	2.2
90°-180°	48.0	2.2
0°-180°	2143.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	721	721	722	722	723	68
15°	690	691	697	701	703	195
25°	629	634	643	654	660	290
35°	547	553	567	583	592	342
45°	453	459	475	494	503	349
55°	350	358	372	388	397	313
65°	241	247	259	272	278	239
75°	135	141	148	158	165	144
85°	47	50	54	60	63	47
90°	22	25	27	30	33	13
95°	16	18	21	23	25	13
105°	12	12	13	14	15	13
115°	8	6	6	8	9	8
125°	4	3	2	3	4	4
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.8	723.8	723.8	723.8	723.8
2.5°	723.8	722.8	723.8	723.8	724.9
5°	720.6	720.6	721.7	721.7	722.8
7.5°	715.2	715.2	717.3	718.4	719.5
10°	709.7	709.7	713.0	714.1	716.2
12.5°	701.0	702.1	705.4	708.6	710.8
15°	690.2	691.2	696.7	701.0	703.2
17.5°	677.1	679.3	685.8	692.3	694.5
20°	663.0	666.2	673.9	681.5	685.8
22.5°	647.8	649.9	658.6	668.4	672.8
25°	629.3	633.6	643.4	654.3	659.7
27.5°	610.8	615.2	626.0	639.1	645.6
30°	590.2	594.5	607.6	621.7	629.3
32.5°	568.4	573.9	589.1	603.2	610.8
35°	546.7	553.2	567.3	582.6	592.3
37.5°	525.0	530.4	545.6	561.9	571.7
40°	502.1	507.6	523.9	540.2	551.0
42.5°	477.1	483.7	500.0	517.3	526.0
45°	453.2	458.7	475.0	494.5	503.2
47.5°	427.1	434.7	450.0	468.4	478.2
50°	402.1	408.7	425.0	442.4	450.0
52.5°	376.1	382.6	397.8	415.2	423.9
55°	350.0	357.6	371.7	388.0	396.7
57.5°	322.8	330.4	344.5	358.7	368.4
60°	296.7	304.3	317.4	331.5	340.2
62.5°	267.4	273.9	288.0	303.2	309.8
65°	241.3	246.7	258.7	271.7	278.2
67.5°	214.1	220.6	231.5	243.5	251.1
70°	186.9	194.5	203.2	214.1	222.8
72.5°	160.9	167.4	175.0	185.9	193.5
75°	134.8	141.3	147.8	157.6	165.2
77.5°	111.9	115.2	121.7	130.4	138.0
80°	86.9	91.3	96.7	105.4	110.9
82.5°	65.2	69.6	73.9	80.4	85.9
85°	46.7	50.0	54.3	59.8	63.0
87.5°	31.5	34.8	38.0	42.4	45.6
90°	21.7	25.0	27.2	30.4	32.6
92.5°	18.5	20.7	22.8	25.0	27.2
95°	16.3	18.5	20.7	22.8	25.0
97.5°	15.2	16.3	18.5	20.7	21.7
100°	14.1	15.2	16.3	18.5	19.6
102.5°	13.0	13.0	15.2	16.3	17.4
105°	12.0	12.0	13.0	14.1	15.2
107.5°	10.9	10.9	12.0	12.0	14.1
110°	9.8	8.7	9.8	9.8	12.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	7.6	8.7	8.7	9.8
115°	7.6	6.5	6.5	7.6	8.7
117.5°	6.5	5.4	5.4	5.4	7.6
120°	6.5	5.4	4.3	4.3	6.5
122.5°	5.4	4.3	3.3	4.3	5.4
125°	4.3	3.3	2.2	3.3	4.3
127.5°	3.3	3.3	1.1	2.2	3.3
130°	3.3	2.2	1.1	2.2	2.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)