

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P384110

Luminaire Tested: **22ID-20-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384110
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-L830-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

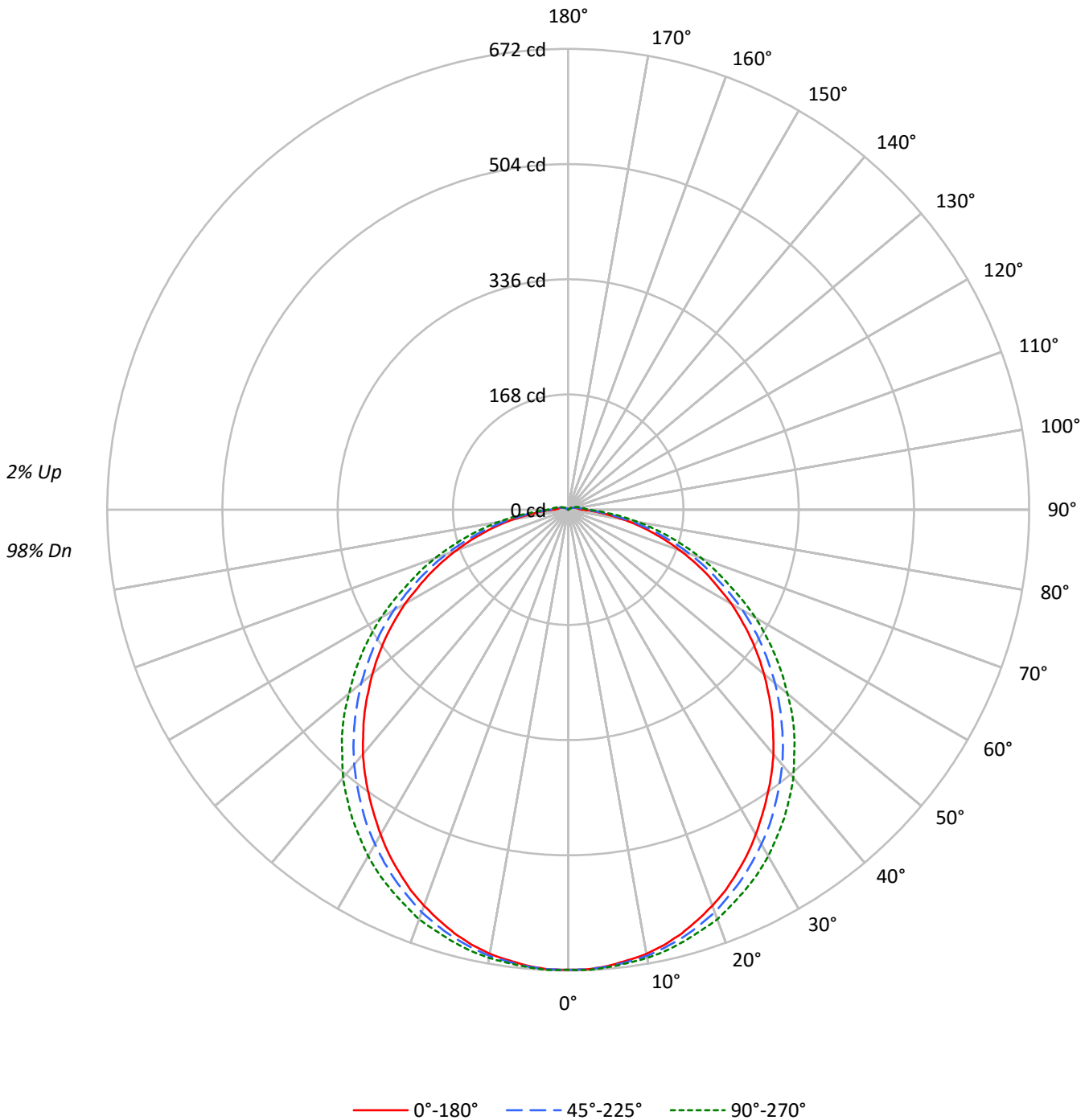
Lumens per Lamp: N/A
Luminaire Lumens: 1986.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

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°	1805	1805	1805
5°	1797	1797	1803
10°	1784	1787	1801
15°	1762	1771	1796
20°	1733	1751	1793
25°	1699	1723	1781
30°	1659	1692	1770
35°	1617	1659	1752
40°	1580	1625	1733
45°	1534	1582	1704
50°	1486	1540	1663
55°	1436	1491	1628
60°	1380	1436	1583
65°	1307	1355	1508
70°	1223	1276	1458
75°	1124	1168	1378
80°	1010	1041	1287
85°	906	930	1222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.2
10°-20°	182.1	9.2
20°-30°	275.0	13.8
30°-40°	329.5	16.6
40°-50°	340.6	17.1
50°-60°	308.5	15.5
60°-70°	238.7	12.0
70°-80°	146.6	7.4
80°-90°	58.3	2.9
90°-100°	21.2	1.1
100°-110°	13.1	0.7
110°-120°	6.7	0.3
120°-130°	2.8	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°	520.6	26.2
0°-40°	850.1	42.8
0°-60°	1499.2	75.5
0°-90°	1942.7	97.8
90°-120°	41.0	2.1
90°-150°	44.1	2.2
90°-180°	44.0	2.2
0°-180°	1986.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	668	668	669	669	670	63
15°	640	641	646	650	652	180
25°	583	587	596	606	611	269
35°	507	513	526	540	549	317
45°	420	425	440	458	466	324
55°	324	331	344	360	368	290
65°	224	229	240	252	258	221
75°	125	131	137	146	153	133
85°	43	46	50	55	58	43
90°	20	23	25	28	30	12
95°	15	17	19	21	23	12
105°	11	11	12	13	14	12
115°	7	6	6	7	8	7
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°	670.8	670.8	670.8	670.8	670.8
2.5°	670.8	669.8	670.8	670.8	671.8
5°	667.8	667.8	668.8	668.8	669.8
7.5°	662.8	662.8	664.8	665.8	666.8
10°	657.7	657.7	660.8	661.8	663.8
12.5°	649.7	650.7	653.7	656.7	658.7
15°	639.6	640.6	645.7	649.7	651.7
17.5°	627.5	629.5	635.6	641.6	643.6
20°	614.4	617.5	624.5	631.6	635.6
22.5°	600.3	602.3	610.4	619.5	623.5
25°	583.2	587.2	596.3	606.4	611.4
27.5°	566.1	570.1	580.2	592.3	598.3
30°	546.9	551.0	563.1	576.2	583.2
32.5°	526.8	531.8	545.9	559.0	566.1
35°	506.7	512.7	525.8	539.9	549.0
37.5°	486.5	491.5	505.6	520.8	529.8
40°	465.4	470.4	485.5	500.6	510.7
42.5°	442.2	448.2	463.3	479.5	487.5
45°	420.0	425.1	440.2	458.3	466.4
47.5°	395.9	402.9	417.0	434.1	443.2
50°	372.7	378.7	393.8	410.0	417.0
52.5°	348.5	354.6	368.7	384.8	392.8
55°	324.3	331.4	344.5	359.6	367.6
57.5°	299.2	306.2	319.3	332.4	341.5
60°	275.0	282.0	294.1	307.2	315.3
62.5°	247.8	253.8	266.9	281.0	287.1
65°	223.6	228.6	239.7	251.8	257.9
67.5°	198.4	204.5	214.5	225.6	232.7
70°	173.2	180.3	188.4	198.4	206.5
72.5°	149.1	155.1	162.2	172.2	179.3
75°	124.9	130.9	137.0	146.1	153.1
77.5°	103.7	106.8	112.8	120.9	127.9
80°	80.6	84.6	89.6	97.7	102.7
82.5°	60.4	64.5	68.5	74.5	79.6
85°	43.3	46.3	50.4	55.4	58.4
87.5°	29.2	32.2	35.3	39.3	42.3
90°	20.1	23.2	25.2	28.2	30.2
92.5°	17.1	19.1	21.2	23.2	25.2
95°	15.1	17.1	19.1	21.2	23.2
97.5°	14.1	15.1	17.1	19.1	20.1
100°	13.1	14.1	15.1	17.1	18.1
102.5°	12.1	12.1	14.1	15.1	16.1
105°	11.1	11.1	12.1	13.1	14.1
107.5°	10.1	10.1	11.1	11.1	13.1
110°	9.1	8.1	9.1	9.1	11.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	7.1	8.1	8.1	9.1
115°	7.1	6.0	6.0	7.1	8.1
117.5°	6.0	5.0	5.0	5.0	7.1
120°	6.0	5.0	4.0	4.0	6.0
122.5°	5.0	4.0	3.0	4.0	5.0
125°	4.0	3.0	2.0	3.0	4.0
127.5°	3.0	3.0	1.0	2.0	3.0
130°	3.0	2.0	1.0	2.0	2.0
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



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.01	14.61	13.41	14.97	15.34	13.64	15.25	14.04	15.61	15.98
	3H	14.79	16.24	15.20	16.61	17.03	15.54	17.00	15.96	17.37	17.78
	4H	15.46	16.83	15.90	17.23	17.66	16.30	17.67	16.73	18.06	18.49
	6H	15.99	17.26	16.43	17.67	18.11	16.91	18.18	17.36	18.59	19.04
	8H	16.16	17.38	16.62	17.82	18.27	17.14	18.36	17.60	18.79	19.24
	12H	16.30	17.47	16.77	17.90	18.38	17.33	18.49	17.79	18.92	19.40
4H	2H	13.69	15.06	14.13	15.46	15.89	14.20	15.57	14.63	15.96	16.39
	3H	15.69	16.85	16.14	17.29	17.74	16.32	17.47	16.76	17.91	18.37
	4H	16.50	17.55	16.96	18.00	18.49	17.21	18.26	17.67	18.71	19.20
	6H	17.15	18.07	17.64	18.55	19.06	17.96	18.89	18.45	19.37	19.87
	8H	17.38	18.24	17.87	18.73	19.24	18.26	19.12	18.75	19.60	20.12
	12H	17.57	18.35	18.09	18.86	19.38	18.51	19.29	19.02	19.80	20.32
8H	4H	16.86	17.72	17.35	18.21	18.72	17.49	18.35	17.98	18.83	19.35
	6H	17.64	18.36	18.17	18.89	19.42	18.38	19.10	18.90	19.63	20.15
	8H	17.96	18.61	18.50	19.15	19.69	18.76	19.41	19.30	19.95	20.49
	12H	18.24	18.82	18.78	19.34	19.95	19.12	19.69	19.66	20.22	20.83
12H	4H	16.91	17.69	17.43	18.21	18.73	17.52	18.30	18.03	18.81	19.33
	6H	17.73	18.38	18.27	18.92	19.46	18.43	19.08	18.97	19.62	20.16
	8H	18.11	18.68	18.65	19.21	19.82	18.87	19.45	19.41	19.98	20.58