

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: P384112

Luminaire Tested: **22ID-20-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384112
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-L840-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

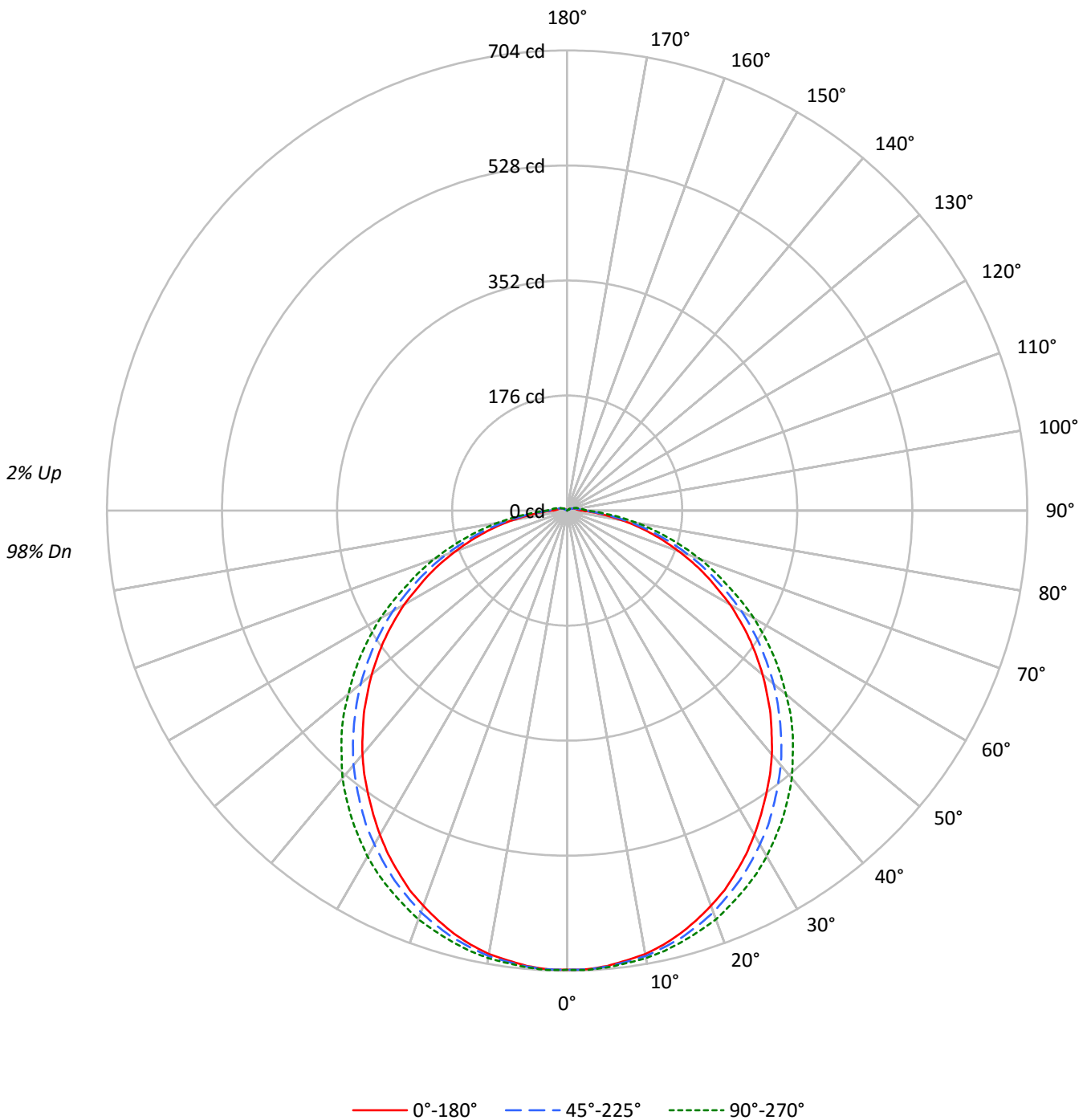
Lumens per Lamp: N/A
Luminaire Lumens: 2080.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

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



TEST NUMBER: P384112
CATALOG NUMBER: 22ID-20-L840-CFD1

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°	1890	1890	1890
5°	1882	1882	1888
10°	1868	1871	1886
15°	1845	1855	1880
20°	1815	1834	1878
25°	1779	1805	1865
30°	1738	1772	1853
35°	1694	1737	1835
40°	1654	1702	1815
45°	1607	1657	1784
50°	1557	1614	1742
55°	1504	1561	1705
60°	1446	1504	1658
65°	1369	1420	1578
70°	1281	1336	1526
75°	1177	1223	1442
80°	1058	1091	1349
85°	950	972	1280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.2
10°-20°	190.7	9.2
20°-30°	288.0	13.8
30°-40°	345.0	16.6
40°-50°	356.7	17.1
50°-60°	323.0	15.5
60°-70°	250.0	12.0
70°-80°	153.5	7.4
80°-90°	61.0	2.9
90°-100°	22.3	1.1
100°-110°	13.7	0.7
110°-120°	7.0	0.3
120°-130°	3.0	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°	545.2	26.2
0°-40°	890.2	42.8
0°-60°	1570.0	75.5
0°-90°	2034.5	97.8
90°-120°	43.0	2.1
90°-150°	46.2	2.2
90°-180°	46.0	2.2
0°-180°	2080.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	699	699	700	700	702	66
15°	670	671	676	680	682	189
25°	611	615	624	635	640	281
35°	531	537	551	565	575	332
45°	440	445	461	480	488	339
55°	340	347	361	377	385	304
65°	234	240	251	264	270	232
75°	131	137	144	153	160	139
85°	45	48	53	58	61	45
90°	21	24	26	30	32	12
95°	16	18	20	22	24	13
105°	12	12	13	14	15	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°	702.5	702.5	702.5	702.5	702.5
2.5°	702.5	701.5	702.5	702.5	703.6
5°	699.4	699.4	700.4	700.4	701.5
7.5°	694.1	694.1	696.2	697.3	698.3
10°	688.8	688.8	692.0	693.0	695.2
12.5°	680.4	681.4	684.6	687.8	689.9
15°	669.8	670.9	676.2	680.4	682.5
17.5°	657.2	659.3	665.6	671.9	674.1
20°	643.5	646.6	654.0	661.4	665.6
22.5°	628.7	630.8	639.2	648.7	653.0
25°	610.8	615.0	624.5	635.0	640.3
27.5°	592.8	597.1	607.6	620.3	626.6
30°	572.8	577.0	589.7	603.4	610.8
32.5°	551.7	557.0	571.7	585.5	592.8
35°	530.6	536.9	550.6	565.4	574.9
37.5°	509.5	514.8	529.5	545.4	554.9
40°	487.3	492.6	508.4	524.3	534.8
42.5°	463.1	469.4	485.2	502.1	510.6
45°	439.9	445.2	461.0	480.0	488.4
47.5°	414.6	421.9	436.7	454.6	464.1
50°	390.3	396.6	412.5	429.3	436.7
52.5°	365.0	371.3	386.1	403.0	411.4
55°	339.7	347.1	360.8	376.6	385.0
57.5°	313.3	320.7	334.4	348.1	357.6
60°	288.0	295.4	308.0	321.7	330.2
62.5°	259.5	265.8	279.5	294.3	300.6
65°	234.2	239.5	251.1	263.7	270.0
67.5°	207.8	214.1	224.7	236.3	243.7
70°	181.4	188.8	197.3	207.8	216.2
72.5°	156.1	162.4	169.8	180.4	187.8
75°	130.8	137.1	143.5	153.0	160.3
77.5°	108.7	111.8	118.1	126.6	134.0
80°	84.4	88.6	93.9	102.3	107.6
82.5°	63.3	67.5	71.7	78.1	83.3
85°	45.4	48.5	52.7	58.0	61.2
87.5°	30.6	33.8	36.9	41.1	44.3
90°	21.1	24.3	26.4	29.5	31.6
92.5°	17.9	20.0	22.2	24.3	26.4
95°	15.8	17.9	20.0	22.2	24.3
97.5°	14.8	15.8	17.9	20.0	21.1
100°	13.7	14.8	15.8	17.9	19.0
102.5°	12.7	12.7	14.8	15.8	16.9
105°	11.6	11.6	12.7	13.7	14.8
107.5°	10.5	10.5	11.6	11.6	13.7
110°	9.5	8.4	9.5	9.5	11.6



TEST NUMBER: P384112

CATALOG NUMBER: 22ID-20-L840-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.4	7.4	8.4	8.4	9.5
115°	7.4	6.3	6.3	7.4	8.4
117.5°	6.3	5.3	5.3	5.3	7.4
120°	6.3	5.3	4.2	4.2	6.3
122.5°	5.3	4.2	3.2	4.2	5.3
125°	4.2	3.2	2.1	3.2	4.2
127.5°	3.2	3.2	1.1	2.1	3.2
130°	3.2	2.1	1.1	2.1	2.1
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	13.17	14.77	13.57	15.13	15.50	13.80	15.41	14.20	15.77	16.14
	3H	14.95	16.40	15.36	16.77	17.19	15.70	17.16	16.12	17.53	17.94
	4H	15.62	16.99	16.06	17.39	17.82	16.46	17.83	16.89	18.22	18.65
	6H	16.15	17.42	16.59	17.83	18.27	17.07	18.34	17.52	18.75	19.20
	8H	16.33	17.54	16.78	17.98	18.43	17.30	18.52	17.76	18.95	19.40
	12H	16.47	17.63	16.93	18.06	18.54	17.49	18.66	17.95	19.08	19.56
4H	2H	13.85	15.23	14.29	15.62	16.05	14.36	15.73	14.79	16.12	16.55
	3H	15.85	17.01	16.30	17.45	17.90	16.48	17.63	16.92	18.08	18.53
	4H	16.66	17.71	17.12	18.16	18.65	17.37	18.42	17.83	18.87	19.36
	6H	17.31	18.23	17.80	18.71	19.22	18.12	19.05	18.61	19.53	20.03
	8H	17.54	18.40	18.03	18.89	19.40	18.42	19.28	18.91	19.76	20.28
	12H	17.73	18.51	18.25	19.02	19.55	18.67	19.45	19.19	19.96	20.48
8H	4H	17.02	17.88	17.52	18.37	18.88	17.65	18.51	18.14	18.99	19.51
	6H	17.80	18.53	18.33	19.05	19.58	18.54	19.26	19.06	19.79	20.31
	8H	18.12	18.77	18.66	19.31	19.85	18.92	19.57	19.46	20.11	20.65
	12H	18.40	18.98	18.94	19.51	20.11	19.28	19.85	19.82	20.38	20.99
12H	4H	17.07	17.85	17.59	18.37	18.89	17.68	18.46	18.19	18.97	19.49
	6H	17.89	18.54	18.43	19.08	19.62	18.59	19.24	19.13	19.78	20.32
	8H	18.27	18.84	18.81	19.37	19.98	19.03	19.61	19.57	20.14	20.75