

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: P384286

Luminaire Tested: **22ID-30-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-30-L830-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

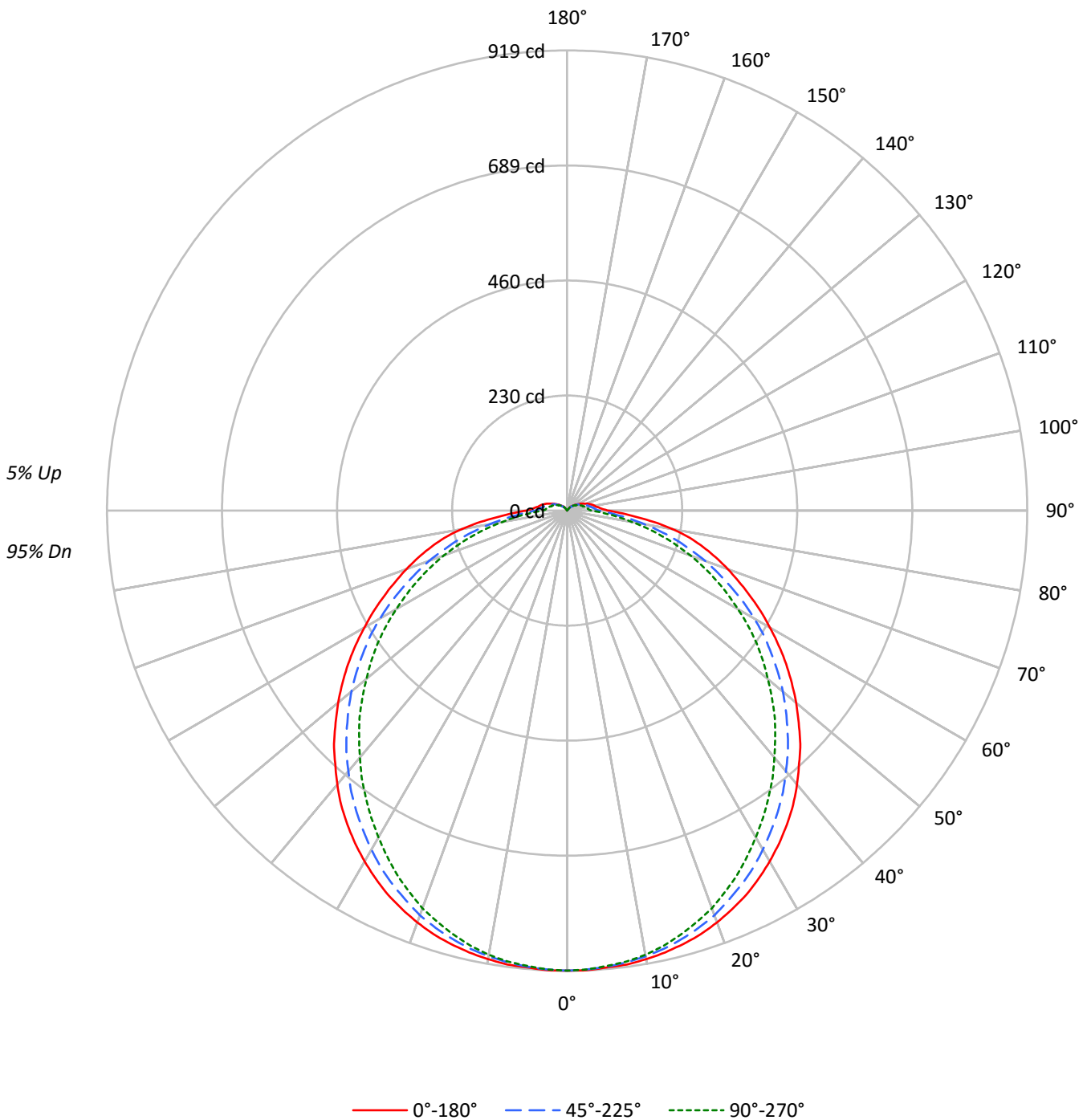
Lumens per Lamp: N/A
Luminaire Lumens: 2980.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.2
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2472	2472	2472
5°	2456	2445	2448
10°	2450	2419	2426
15°	2442	2392	2389
20°	2433	2362	2349
25°	2420	2319	2295
30°	2398	2275	2234
35°	2376	2227	2175
40°	2345	2173	2113
45°	2314	2120	2060
50°	2274	2064	1993
55°	2238	1999	1936
60°	2200	1929	1853
65°	2177	1834	1771
70°	2186	1743	1675
75°	2230	1618	1550
80°	2263	1453	1392
85°	2140	1305	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	2.9
10°-20°	250.1	8.4
20°-30°	379.8	12.7
30°-40°	458.7	15.4
40°-50°	480.2	16.1
50°-60°	445.5	15.0
60°-70°	360.9	12.1
70°-80°	243.5	8.2
80°-90°	117.7	3.9
90°-100°	59.2	2.0
100°-110°	43.0	1.4
110°-120°	28.8	1.0
120°-130°	16.7	0.6
130°-140°	8.4	0.3
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	716.8	24.1
0°-40°	1175.6	39.4
0°-60°	2101.2	70.5
0°-90°	2823.3	94.7
90°-120°	131.0	4.4
90°-150°	156.7	5.3
90°-180°	157.0	5.3
0°-180°	2980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	916	914	914	913	913	87
15°	896	892	886	880	877	253
25°	847	839	824	809	803	390
35°	765	755	734	711	701	479
45°	659	647	623	597	586	507
55°	534	522	498	474	462	477
65°	403	388	361	341	328	400
75°	281	253	224	208	196	296
85°	135	117	99	90	81	128
90°	81	74	63	57	48	46
95°	65	60	54	48	42	51
105°	48	45	41	36	33	51
115°	33	30	30	26	26	33
125°	21	18	20	16	18	18
135°	12	10	10	10	12	9
145°	0	0	0	0	0	1
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°	918.8	918.8	918.8	918.8	918.8
2.5°	918.8	917.3	917.3	917.3	917.3
5°	915.8	914.3	914.3	912.8	912.8
7.5°	914.3	911.3	909.8	908.3	908.3
10°	909.8	906.8	903.8	900.7	900.7
12.5°	903.8	900.7	896.2	890.2	890.2
15°	896.2	891.7	885.7	879.7	876.7
17.5°	887.2	882.7	873.7	864.7	861.6
20°	875.2	869.2	860.1	848.1	845.1
22.5°	861.6	855.6	842.1	830.1	824.1
25°	846.6	839.1	824.1	809.0	803.0
27.5°	828.6	821.0	804.5	786.5	778.9
30°	809.0	800.0	781.9	762.4	753.4
32.5°	788.0	777.4	757.9	736.8	727.8
35°	765.4	754.9	733.8	711.3	700.7
37.5°	741.3	730.8	708.3	684.2	673.7
40°	714.3	703.8	679.7	655.6	643.6
42.5°	685.7	676.7	652.6	627.1	615.0
45°	658.6	646.6	622.6	597.0	586.5
47.5°	627.1	618.0	592.5	566.9	554.9
50°	597.0	586.5	562.4	536.8	523.3
52.5°	565.4	556.4	530.8	505.3	493.2
55°	533.8	521.8	497.7	473.7	461.7
57.5°	500.7	490.2	466.2	443.6	428.6
60°	467.7	457.1	431.6	410.5	394.0
62.5°	436.1	424.1	397.0	374.4	360.9
65°	403.0	388.0	360.9	341.4	327.8
67.5°	371.4	353.4	326.3	308.3	294.7
70°	341.4	320.3	293.2	275.2	261.7
72.5°	311.3	285.7	257.1	240.6	228.6
75°	281.2	252.6	224.1	207.5	195.5
77.5°	251.1	218.0	189.5	175.9	163.9
80°	215.0	183.5	156.4	144.4	132.3
82.5°	174.4	148.9	126.3	114.3	105.3
85°	135.3	117.3	99.2	90.2	81.2
87.5°	105.3	91.7	78.2	70.7	63.2
90°	81.2	73.7	63.2	57.1	48.1
92.5°	70.7	64.7	57.1	51.1	43.6
95°	64.7	60.1	54.1	48.1	42.1
97.5°	58.6	55.6	49.6	45.1	39.1
100°	55.6	51.1	46.6	42.1	37.6
102.5°	52.6	48.1	43.6	39.1	36.1
105°	48.1	45.1	40.6	36.1	33.1
107.5°	45.1	40.6	37.6	33.1	31.6
110°	40.6	37.6	34.6	31.6	30.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.1	34.6	31.6	28.6	27.1
115°	33.1	30.1	30.1	25.6	25.6
117.5°	30.1	27.1	27.1	24.1	24.1
120°	25.6	24.1	24.1	21.1	21.1
122.5°	22.6	21.1	21.1	19.5	19.5
125°	21.1	18.0	19.5	16.5	18.0
127.5°	18.0	16.5	16.5	15.0	16.5
130°	15.0	13.5	13.5	13.5	15.0
132.5°	13.5	12.0	12.0	12.0	13.5
135°	12.0	10.5	10.5	10.5	12.0
137.5°	10.5	9.0	7.5	9.0	10.5
140°	9.0	7.5	6.0	7.5	9.0
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	14.54	16.10	14.98	16.52	16.97	13.77	15.33	14.22	15.75	16.20
	3H	16.65	18.07	17.11	18.50	18.99	15.62	17.03	16.07	17.47	17.95
	4H	17.59	18.93	18.07	19.39	19.89	16.34	17.68	16.82	18.13	18.63
	6H	18.46	19.71	18.95	20.17	20.69	16.91	18.16	17.40	18.63	19.14
	8H	18.81	20.01	19.31	20.50	21.02	17.12	18.32	17.63	18.81	19.33
	12H	19.11	20.25	19.62	20.74	21.29	17.30	18.45	17.81	18.93	19.48
4H	2H	15.09	16.43	15.57	16.88	17.38	14.48	15.82	14.96	16.28	16.78
	3H	17.42	18.56	17.91	19.05	19.58	16.55	17.69	17.04	18.19	18.71
	4H	18.50	19.54	19.02	20.05	20.61	17.41	18.44	17.92	18.95	19.51
	6H	19.52	20.43	20.05	20.97	21.54	18.12	19.03	18.65	19.57	20.14
	8H	19.95	20.80	20.48	21.34	21.92	18.39	19.25	18.93	19.78	20.36
	12H	20.32	21.10	20.88	21.66	22.25	18.63	19.40	19.18	19.97	20.55
8H	4H	18.78	19.64	19.32	20.18	20.76	17.82	18.68	18.36	19.21	19.80
	6H	19.94	20.66	20.51	21.24	21.83	18.68	19.40	19.25	19.98	20.57
	8H	20.46	21.11	21.05	21.70	22.31	19.04	19.69	19.63	20.28	20.88
	12H	20.96	21.54	21.55	22.12	22.79	19.38	19.96	19.97	20.54	21.21
12H	4H	18.81	19.59	19.37	20.15	20.74	17.90	18.67	18.46	19.24	19.83
	6H	19.99	20.64	20.58	21.23	21.84	18.79	19.44	19.38	20.04	20.64
	8H	20.58	21.16	21.16	21.74	22.41	19.23	19.80	19.81	20.38	21.05