

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: P384102

Luminaire Tested: **14ID-80-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384102
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: 14ID-80-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

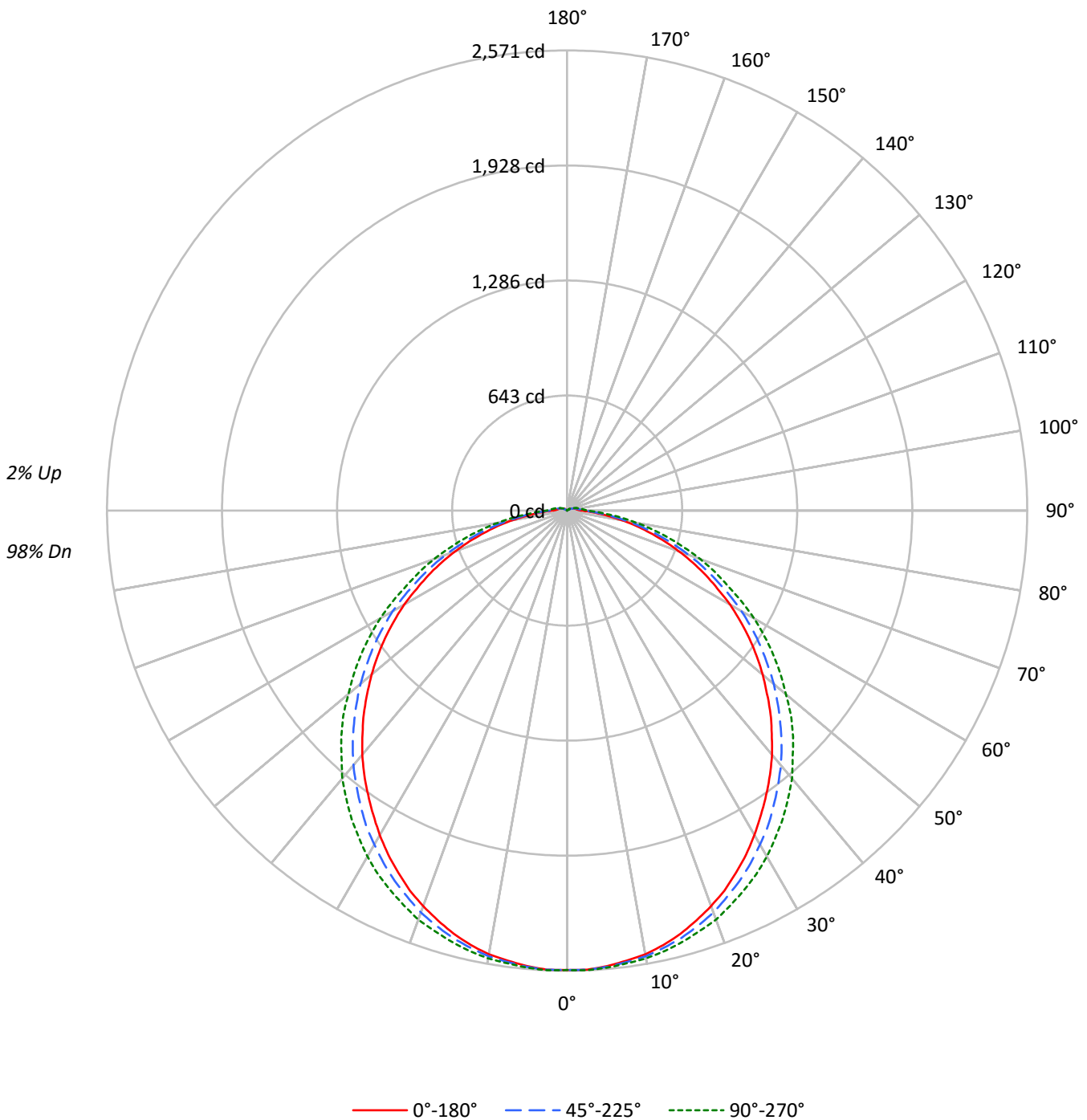
Lumens per Lamp: N/A
Luminaire Lumens: 7603.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 77.1
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°	6908	6908	6908
5°	6891	6869	6874
10°	6853	6821	6840
15°	6781	6750	6796
20°	6683	6665	6760
25°	6563	6550	6687
30°	6426	6422	6617
35°	6278	6286	6521
40°	6148	6147	6417
45°	5992	5971	6270
50°	5826	5800	6077
55°	5655	5596	5899
60°	5466	5372	5675
65°	5216	5045	5331
70°	4934	4717	5059
75°	4611	4275	4647
80°	4274	3751	4138
85°	4132	3231	3537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	3.2
10°-20°	696.9	9.2
20°-30°	1052.2	13.8
30°-40°	1260.7	16.6
40°-50°	1303.5	17.1
50°-60°	1180.4	15.5
60°-70°	913.4	12.0
70°-80°	561.1	7.4
80°-90°	222.9	2.9
90°-100°	81.3	1.1
100°-110°	50.0	0.7
110°-120°	25.7	0.3
120°-130°	11.0	0.1
130°-140°	0.7	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°	1992.3	26.2
0°-40°	3253.0	42.8
0°-60°	5736.9	75.5
0°-90°	7434.3	97.8
90°-120°	157.0	2.1
90°-150°	168.7	2.2
90°-180°	169.0	2.2
0°-180°	7603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2556	2556	2559	2559	2563	243
15°	2448	2452	2471	2486	2494	690
25°	2232	2247	2282	2320	2340	1028
35°	1939	1962	2012	2066	2101	1214
45°	1607	1627	1684	1754	1785	1239
55°	1241	1268	1318	1376	1407	1109
65°	856	875	917	964	987	846
75°	478	501	524	559	586	509
85°	166	177	193	212	224	165
90°	77	89	96	108	116	45
95°	58	66	73	81	89	46
105°	42	42	46	50	54	45
115°	27	23	23	27	31	27
125°	15	12	8	12	15	14
135°	0	0	0	0	0	1
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°	2567.1	2567.1	2567.1	2567.1	2567.1
2.5°	2567.1	2563.3	2567.1	2567.1	2571.0
5°	2555.6	2555.6	2559.4	2559.4	2563.3
7.5°	2536.3	2536.3	2544.0	2547.8	2551.7
10°	2517.0	2517.0	2528.6	2532.4	2540.1
12.5°	2486.2	2490.0	2501.6	2513.2	2520.9
15°	2447.6	2451.5	2470.8	2486.2	2493.9
17.5°	2401.4	2409.1	2432.2	2455.3	2463.1
20°	2351.3	2362.8	2389.8	2416.8	2432.2
22.5°	2297.3	2305.0	2335.9	2370.5	2386.0
25°	2231.8	2247.2	2281.9	2320.4	2339.7
27.5°	2166.3	2181.7	2220.2	2266.5	2289.6
30°	2093.0	2108.4	2154.7	2204.8	2231.8
32.5°	2015.9	2035.2	2089.2	2139.3	2166.3
35°	1938.8	1962.0	2012.1	2066.0	2100.7
37.5°	1861.7	1881.0	1935.0	1992.8	2027.5
40°	1780.8	1800.1	1857.9	1915.7	1954.3
42.5°	1692.1	1715.3	1773.1	1834.8	1865.6
45°	1607.3	1626.6	1684.4	1753.8	1784.7
47.5°	1514.8	1541.8	1595.8	1661.3	1696.0
50°	1426.2	1449.3	1507.1	1568.8	1595.8
52.5°	1333.7	1356.8	1410.8	1472.4	1503.3
55°	1241.2	1268.1	1318.3	1376.1	1406.9
57.5°	1144.8	1171.8	1221.9	1272.0	1306.7
60°	1052.3	1079.3	1125.5	1175.6	1206.5
62.5°	948.2	971.3	1021.5	1075.4	1098.5
65°	855.7	875.0	917.4	963.6	986.8
67.5°	759.3	782.5	821.0	863.4	890.4
70°	663.0	690.0	720.8	759.3	790.2
72.5°	570.5	593.6	620.6	659.1	686.1
75°	478.0	501.1	524.2	558.9	585.9
77.5°	397.0	408.6	431.7	462.5	489.5
80°	308.4	323.8	343.1	373.9	393.2
82.5°	231.3	246.7	262.1	285.2	304.5
85°	165.7	177.3	192.7	212.0	223.6
87.5°	111.8	123.3	134.9	150.3	161.9
90°	77.1	88.7	96.4	107.9	115.6
92.5°	65.5	73.2	80.9	88.7	96.4
95°	57.8	65.5	73.2	80.9	88.7
97.5°	54.0	57.8	65.5	73.2	77.1
100°	50.1	54.0	57.8	65.5	69.4
102.5°	46.3	46.3	54.0	57.8	61.7
105°	42.4	42.4	46.3	50.1	54.0
107.5°	38.5	38.5	42.4	42.4	50.1
110°	34.7	30.8	34.7	34.7	42.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.8	27.0	30.8	30.8	34.7
115°	27.0	23.1	23.1	27.0	30.8
117.5°	23.1	19.3	19.3	19.3	27.0
120°	23.1	19.3	15.4	15.4	23.1
122.5°	19.3	15.4	11.6	15.4	19.3
125°	15.4	11.6	7.7	11.6	15.4
127.5°	11.6	11.6	3.9	7.7	11.6
130°	11.6	7.7	3.9	7.7	7.7
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)