

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: P384209

Luminaire Tested: **24ID-75-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384209
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: 24ID-75-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

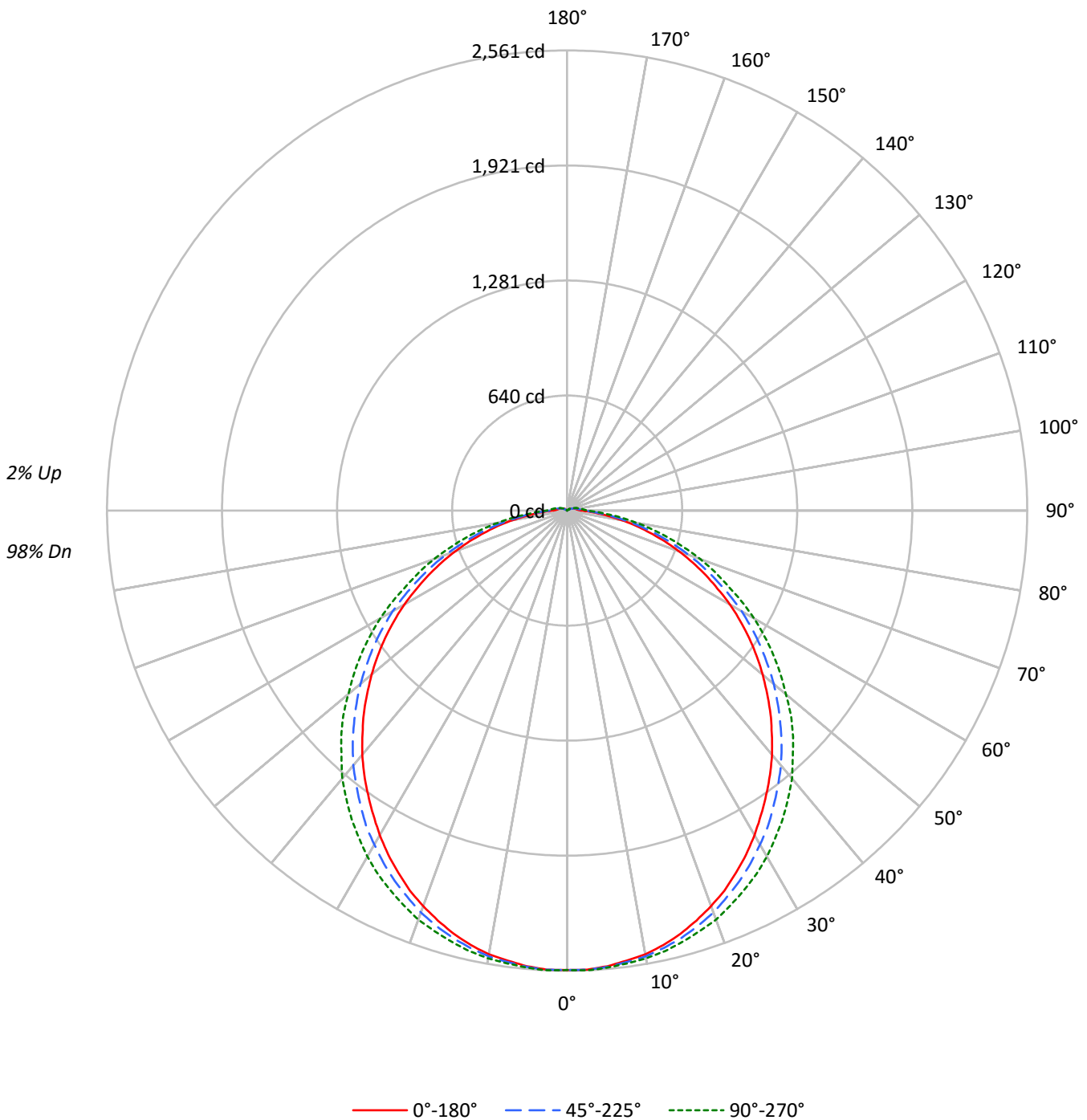
Lumens per Lamp: N/A
Luminaire Lumens: 7574.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 70.8
Input Voltage (V): NR
Input Current (Ain): 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°	3441	3441	3441
5°	3432	3430	3436
10°	3413	3415	3432
15°	3378	3388	3422
20°	3329	3355	3417
25°	3269	3307	3394
30°	3201	3252	3373
35°	3127	3194	3340
40°	3062	3135	3304
45°	2985	3058	3248
50°	2902	2986	3170
55°	2817	2898	3103
60°	2723	2803	3017
65°	2598	2658	2873
70°	2458	2519	2779
75°	2297	2330	2626
80°	2129	2117	2455
85°	2059	1970	2329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	3.2
10°-20°	694.3	9.2
20°-30°	1048.2	13.8
30°-40°	1255.9	16.6
40°-50°	1298.5	17.1
50°-60°	1175.9	15.5
60°-70°	909.9	12.0
70°-80°	558.9	7.4
80°-90°	222.1	2.9
90°-100°	81.0	1.1
100°-110°	49.8	0.7
110°-120°	25.6	0.3
120°-130°	10.9	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°	1984.7	26.2
0°-40°	3240.6	42.8
0°-60°	5715.0	75.5
0°-90°	7405.9	97.8
90°-120°	156.4	2.1
90°-150°	168.1	2.2
90°-180°	168.0	2.2
0°-180°	7574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2557	2557	2557	2557	2557	
5°	2546	2546	2550	2550	2554	242
15°	2438	2442	2461	2477	2484	687
25°	2223	2239	2273	2312	2331	1024
35°	1931	1954	2004	2058	2093	1209
45°	1601	1620	1678	1747	1778	1234
55°	1236	1263	1313	1371	1402	1105
65°	852	872	914	960	983	843
75°	476	499	522	557	584	507
85°	165	177	192	211	223	165
90°	77	88	96	108	115	45
95°	58	65	73	81	88	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°	2557.3	2557.3	2557.3	2557.3	2557.3
2.5°	2557.3	2553.5	2557.3	2557.3	2561.2
5°	2545.8	2545.8	2549.7	2549.7	2553.5
7.5°	2526.6	2526.6	2534.3	2538.1	2542.0
10°	2507.4	2507.4	2518.9	2522.8	2530.5
12.5°	2476.7	2480.5	2492.1	2503.6	2511.3
15°	2438.3	2442.1	2461.3	2476.7	2484.4
17.5°	2392.2	2399.9	2422.9	2446.0	2453.7
20°	2342.3	2353.8	2380.7	2407.6	2422.9
22.5°	2288.5	2296.2	2326.9	2361.5	2376.9
25°	2223.3	2238.6	2273.2	2311.6	2330.8
27.5°	2158.0	2173.3	2211.7	2257.8	2280.9
30°	2085.0	2100.4	2146.5	2196.4	2223.3
32.5°	2008.2	2027.4	2081.2	2131.1	2158.0
35°	1931.4	1954.5	2004.4	2058.2	2092.7
37.5°	1854.6	1873.8	1927.6	1985.2	2019.8
40°	1774.0	1793.2	1850.8	1908.4	1946.8
42.5°	1685.7	1708.7	1766.3	1827.8	1858.5
45°	1601.2	1620.4	1678.0	1747.1	1777.8
47.5°	1509.1	1535.9	1589.7	1655.0	1689.5
50°	1420.7	1443.8	1501.4	1562.8	1589.7
52.5°	1328.6	1351.6	1405.4	1466.8	1497.5
55°	1236.4	1263.3	1313.2	1370.8	1401.5
57.5°	1140.4	1167.3	1217.2	1267.1	1301.7
60°	1048.3	1075.2	1121.2	1171.2	1201.9
62.5°	944.6	967.6	1017.6	1071.3	1094.4
65°	852.4	871.6	913.9	960.0	983.0
67.5°	756.4	779.5	817.9	860.1	887.0
70°	660.5	687.3	718.0	756.4	787.2
72.5°	568.3	591.3	618.2	656.6	683.5
75°	476.1	499.2	522.2	556.8	583.7
77.5°	395.5	407.0	430.1	460.8	487.7
80°	307.2	322.5	341.7	372.5	391.7
82.5°	230.4	245.7	261.1	284.1	303.3
85°	165.1	176.6	192.0	211.2	222.7
87.5°	111.4	122.9	134.4	149.8	161.3
90°	76.8	88.3	96.0	107.5	115.2
92.5°	65.3	73.0	80.6	88.3	96.0
95°	57.6	65.3	73.0	80.6	88.3
97.5°	53.8	57.6	65.3	73.0	76.8
100°	49.9	53.8	57.6	65.3	69.1
102.5°	46.1	46.1	53.8	57.6	61.4
105°	42.2	42.2	46.1	49.9	53.8
107.5°	38.4	38.4	42.2	42.2	49.9
110°	34.6	30.7	34.6	34.6	42.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.7	26.9	30.7	30.7	34.6
115°	26.9	23.0	23.0	26.9	30.7
117.5°	23.0	19.2	19.2	19.2	26.9
120°	23.0	19.2	15.4	15.4	23.0
122.5°	19.2	15.4	11.5	15.4	19.2
125°	15.4	11.5	7.7	11.5	15.4
127.5°	11.5	11.5	3.8	7.7	11.5
130°	11.5	7.7	3.8	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)