

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: P384710

Luminaire Tested: **24ID-75-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-75-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

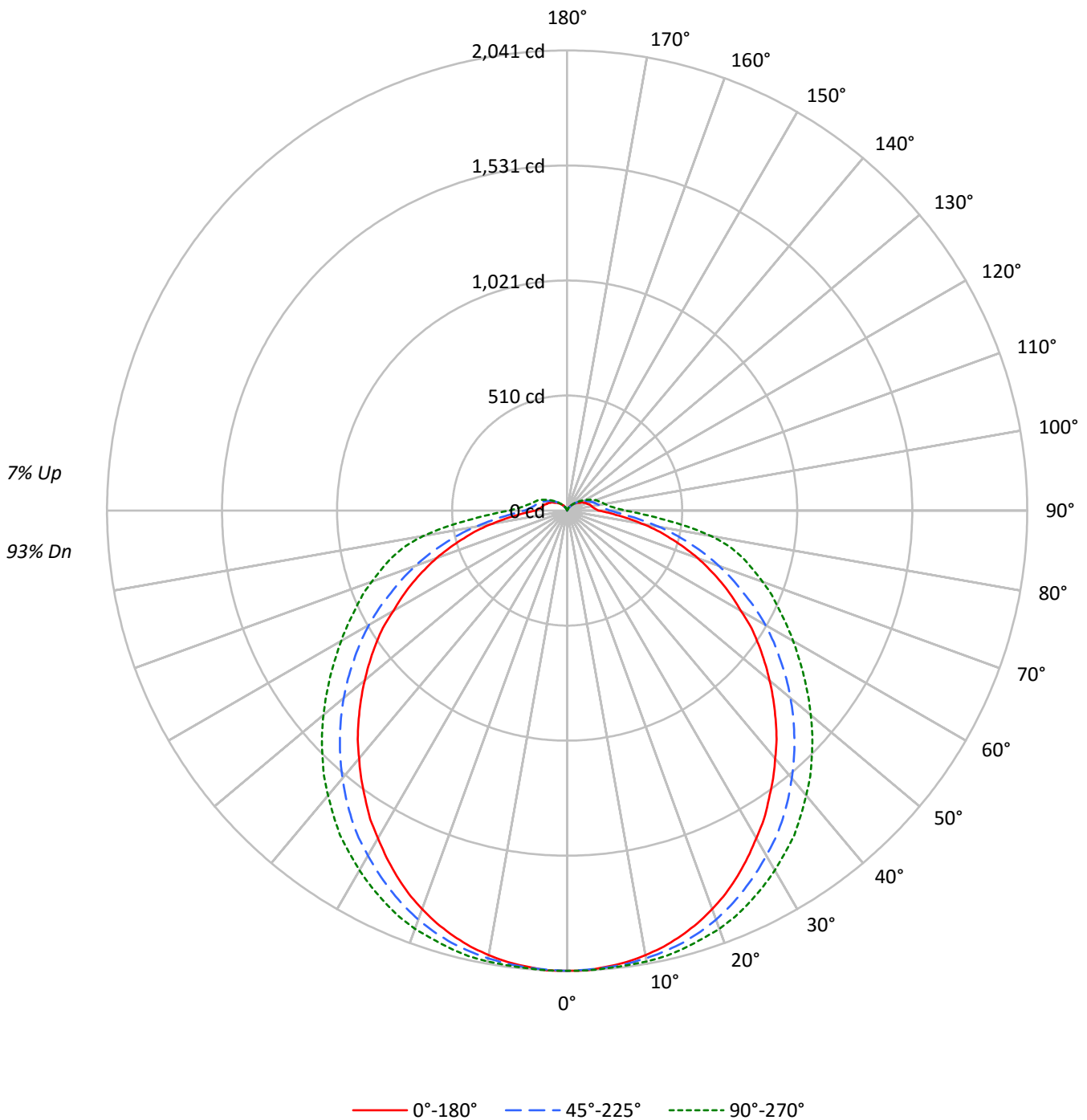
Lumens per Lamp: N/A
Luminaire Lumens: 7143.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 70.8
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2747	2747	2747
5°	2728	2716	2723
10°	2706	2692	2715
15°	2675	2669	2708
20°	2634	2638	2703
25°	2580	2595	2689
30°	2516	2550	2669
35°	2456	2506	2653
40°	2396	2450	2622
45°	2342	2394	2597
50°	2283	2338	2570
55°	2233	2277	2553
60°	2163	2222	2561
65°	2120	2137	2603
70°	2070	2065	2702
75°	1997	1958	2854
80°	1936	1828	2940
85°	1957	1683	2649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.7
10°-20°	559.4	7.8
20°-30°	854.6	12.0
30°-40°	1040.3	14.6
40°-50°	1099.5	15.4
50°-60°	1037.9	14.5
60°-70°	873.2	12.2
70°-80°	629.5	8.8
80°-90°	332.0	4.6
90°-100°	177.7	2.5
100°-110°	135.0	1.9
110°-120°	97.9	1.4
120°-130°	61.5	0.9
130°-140°	33.2	0.5
140°-150°	14.5	0.2
150°-160°	3.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1607.5	22.5
0°-40°	2647.8	37.1
0°-60°	4785.3	67.0
0°-90°	6620.1	92.7
90°-120°	410.6	5.7
90°-150°	519.8	7.3
90°-180°	524.0	7.3
0°-180°	7143.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2031	2031	2034	2034	2038	193
15°	1952	1960	1984	1999	2009	551
25°	1788	1810	1856	1899	1917	824
35°	1560	1596	1667	1732	1756	977
45°	1308	1347	1425	1504	1536	1009
55°	1037	1083	1154	1240	1283	927
65°	755	798	862	969	1037	747
75°	474	513	563	673	805	503
85°	217	246	274	342	417	204
90°	139	164	189	224	256	80
95°	121	139	160	182	196	97
105°	103	114	128	142	150	108
115°	82	89	100	107	114	82
125°	61	61	71	71	75	55
135°	43	39	43	43	46	32
145°	25	21	21	21	25	16
155°	11	11	4	7	11	5
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°	2041.4	2041.4	2041.4	2041.4	2041.4
2.5°	2041.4	2037.9	2037.9	2037.9	2041.4
5°	2030.8	2030.8	2034.3	2034.3	2037.9
7.5°	2020.1	2020.1	2027.2	2030.8	2034.3
10°	2002.3	2005.8	2016.5	2023.6	2030.8
12.5°	1980.9	1984.4	2002.3	2016.5	2023.6
15°	1952.4	1959.5	1984.4	1998.7	2009.4
17.5°	1920.3	1931.0	1959.5	1980.9	1991.6
20°	1881.1	1895.4	1931.0	1959.5	1973.8
22.5°	1838.4	1852.6	1895.4	1931.0	1948.8
25°	1788.5	1809.9	1856.2	1898.9	1916.7
27.5°	1735.0	1760.0	1813.4	1863.3	1881.1
30°	1678.0	1706.5	1767.1	1820.6	1841.9
32.5°	1624.6	1653.1	1720.8	1777.8	1799.2
35°	1560.5	1596.1	1667.4	1731.5	1756.4
37.5°	1499.9	1535.5	1610.4	1678.0	1703.0
40°	1435.8	1471.4	1549.8	1624.6	1649.5
42.5°	1375.2	1410.8	1489.2	1567.6	1596.1
45°	1307.5	1346.7	1425.1	1503.5	1535.5
47.5°	1239.8	1279.0	1361.0	1442.9	1475.0
50°	1172.1	1214.9	1293.3	1375.2	1410.8
52.5°	1104.4	1147.2	1225.6	1311.1	1346.7
55°	1036.8	1083.1	1154.3	1239.8	1282.6
57.5°	969.1	1015.4	1086.6	1175.7	1218.5
60°	890.7	944.1	1015.4	1108.0	1157.9
62.5°	823.0	869.3	940.6	1036.8	1097.3
65°	755.3	798.1	862.2	969.1	1036.8
67.5°	684.0	730.4	790.9	890.7	983.3
70°	616.4	655.5	716.1	819.4	922.7
72.5°	545.1	584.3	641.3	748.2	862.2
75°	473.8	513.0	562.9	673.4	805.2
77.5°	409.7	441.8	488.1	595.0	737.5
80°	338.5	370.5	413.3	509.5	648.4
82.5°	274.3	302.8	338.5	424.0	534.4
85°	217.3	245.8	274.3	342.0	416.8
87.5°	174.6	196.0	224.5	274.3	324.2
90°	138.9	163.9	188.8	224.5	256.5
92.5°	128.3	149.6	171.0	199.5	220.9
95°	121.1	138.9	160.3	181.7	196.0
97.5°	114.0	131.8	149.6	171.0	181.7
100°	110.4	124.7	142.5	160.3	167.4
102.5°	106.9	117.6	135.4	149.6	160.3
105°	103.3	114.0	128.3	142.5	149.6
107.5°	96.2	106.9	121.1	135.4	142.5
110°	92.6	99.8	114.0	124.7	135.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.1	96.2	106.9	117.6	124.7
115°	81.9	89.1	99.8	106.9	114.0
117.5°	78.4	81.9	92.6	96.2	103.3
120°	71.3	74.8	85.5	89.1	92.6
122.5°	64.1	67.7	78.4	78.4	85.5
125°	60.6	60.6	71.3	71.3	74.8
127.5°	57.0	57.0	64.1	64.1	67.7
130°	49.9	49.9	57.0	57.0	57.0
132.5°	46.3	42.8	49.9	49.9	53.4
135°	42.8	39.2	42.8	42.8	46.3
137.5°	35.6	35.6	39.2	35.6	39.2
140°	32.1	28.5	32.1	32.1	35.6
142.5°	28.5	24.9	28.5	24.9	28.5
145°	24.9	21.4	21.4	21.4	24.9
147.5°	21.4	17.8	17.8	17.8	21.4
150°	17.8	14.3	14.3	14.3	17.8
152.5°	14.3	10.7	7.1	10.7	14.3
155°	10.7	10.7	3.6	7.1	10.7
157.5°	7.1	7.1	0.0	3.6	7.1
160°	3.6	3.6	0.0	3.6	3.6
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)