

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: P384716

Luminaire Tested: **24ID-80-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384716
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-80-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

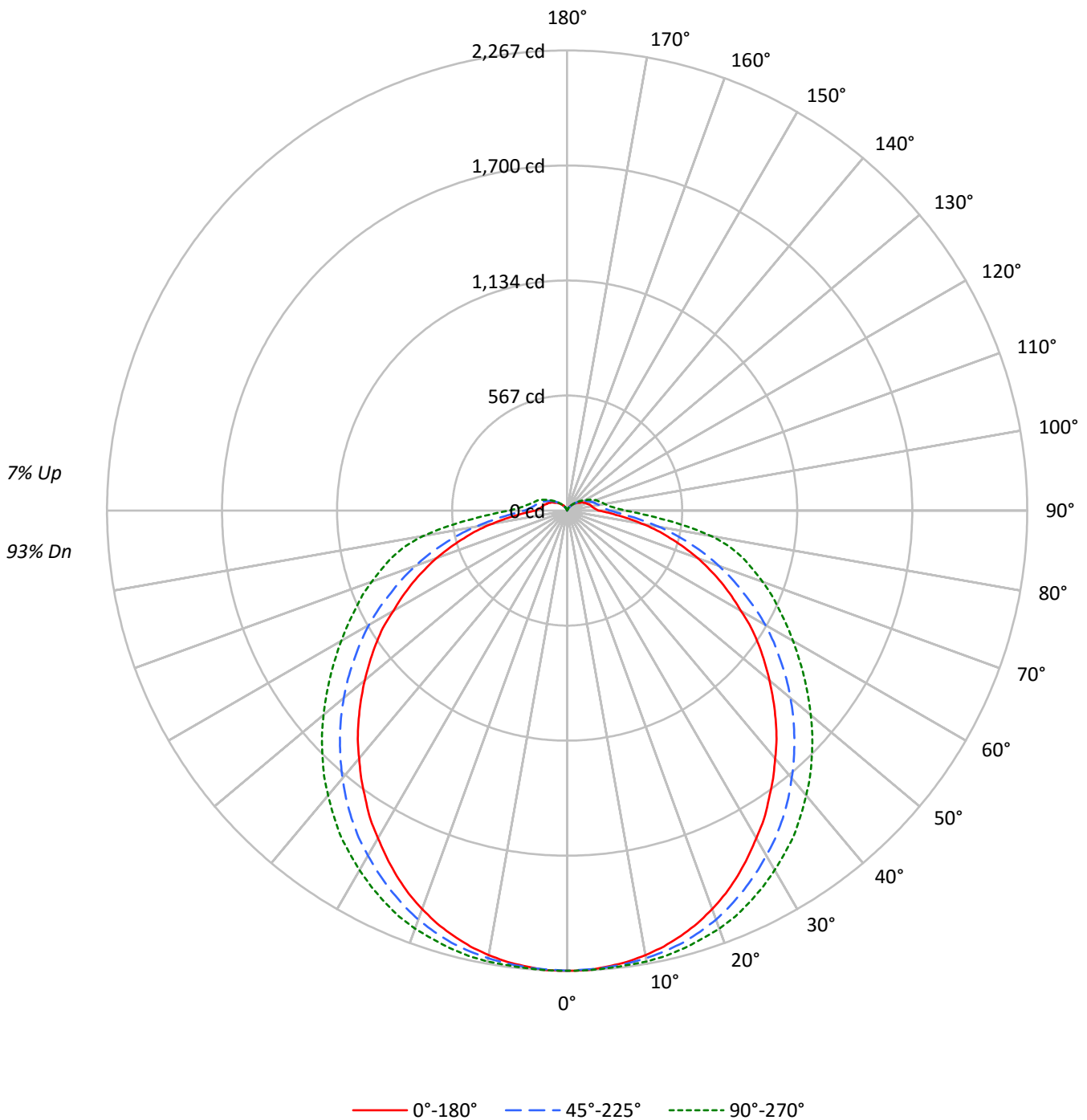
Lumens per Lamp: N/A
Luminaire Lumens: 7933.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 77
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	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°	3050	3050	3050
5°	3029	3016	3023
10°	3005	2990	3015
15°	2970	2964	3008
20°	2924	2929	3002
25°	2865	2882	2986
30°	2794	2832	2964
35°	2727	2783	2946
40°	2661	2720	2912
45°	2600	2659	2884
50°	2536	2596	2854
55°	2479	2528	2835
60°	2402	2468	2844
65°	2355	2373	2891
70°	2298	2293	3001
75°	2218	2174	3169
80°	2150	2030	3265
85°	2173	1869	2942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	2.7
10°-20°	621.2	7.8
20°-30°	949.0	12.0
30°-40°	1155.2	14.6
40°-50°	1221.0	15.4
50°-60°	1152.6	14.5
60°-70°	969.7	12.2
70°-80°	699.1	8.8
80°-90°	368.7	4.6
90°-100°	197.4	2.5
100°-110°	149.9	1.9
110°-120°	108.7	1.4
120°-130°	68.3	0.9
130°-140°	36.9	0.5
140°-150°	16.1	0.2
150°-160°	4.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1785.1	22.5
0°-40°	2940.4	37.1
0°-60°	5313.9	67.0
0°-90°	7351.4	92.7
90°-120°	456.0	5.7
90°-150°	577.2	7.3
90°-180°	582.0	7.3
0°-180°	7933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2267	2267	2267	2267	2267	
5°	2255	2255	2259	2259	2263	214
15°	2168	2176	2204	2220	2231	612
25°	1986	2010	2061	2109	2128	915
35°	1733	1772	1852	1923	1950	1085
45°	1452	1496	1582	1670	1705	1121
55°	1151	1203	1282	1377	1424	1029
65°	839	886	957	1076	1151	829
75°	526	570	625	748	894	559
85°	241	273	305	380	463	226
90°	154	182	210	249	285	88
95°	134	154	178	202	218	107
105°	115	127	142	158	166	120
115°	91	99	111	119	127	91
125°	67	67	79	79	83	61
135°	48	44	48	48	51	36
145°	28	24	24	24	28	18
155°	12	12	4	8	12	6
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°	2267.0	2267.0	2267.0	2267.0	2267.0
2.5°	2267.0	2263.0	2263.0	2263.0	2267.0
5°	2255.1	2255.1	2259.1	2259.1	2263.0
7.5°	2243.2	2243.2	2251.1	2255.1	2259.1
10°	2223.5	2227.4	2239.3	2247.2	2255.1
12.5°	2199.7	2203.7	2223.5	2239.3	2247.2
15°	2168.1	2176.0	2203.7	2219.5	2231.4
17.5°	2132.5	2144.3	2176.0	2199.7	2211.6
20°	2088.9	2104.8	2144.3	2176.0	2191.8
22.5°	2041.5	2057.3	2104.8	2144.3	2164.1
25°	1986.1	2009.8	2061.2	2108.7	2128.5
27.5°	1926.7	1954.4	2013.8	2069.2	2088.9
30°	1863.4	1895.1	1962.3	2021.7	2045.4
32.5°	1804.1	1835.7	1910.9	1974.2	1997.9
35°	1732.9	1772.4	1851.6	1922.8	1950.5
37.5°	1665.6	1705.2	1788.3	1863.4	1891.1
40°	1594.4	1634.0	1721.0	1804.1	1831.8
42.5°	1527.1	1566.7	1653.7	1740.8	1772.4
45°	1452.0	1495.5	1582.5	1669.6	1705.2
47.5°	1376.8	1420.3	1511.3	1602.3	1637.9
50°	1301.6	1349.1	1436.1	1527.1	1566.7
52.5°	1226.5	1273.9	1361.0	1455.9	1495.5
55°	1151.3	1202.7	1281.8	1376.8	1424.3
57.5°	1076.1	1127.6	1206.7	1305.6	1353.1
60°	989.1	1048.4	1127.6	1230.4	1285.8
62.5°	913.9	965.3	1044.5	1151.3	1218.5
65°	838.7	886.2	957.4	1076.1	1151.3
67.5°	759.6	811.0	878.3	989.1	1091.9
70°	684.4	728.0	795.2	910.0	1024.7
72.5°	605.3	648.8	712.1	830.8	957.4
75°	526.2	569.7	625.1	747.7	894.1
77.5°	455.0	490.6	542.0	660.7	819.0
80°	375.9	411.5	458.9	565.8	720.0
82.5°	304.6	336.3	375.9	470.8	593.4
85°	241.3	273.0	304.6	379.8	462.9
87.5°	193.9	217.6	249.2	304.6	360.0
90°	154.3	182.0	209.7	249.2	284.9
92.5°	142.4	166.2	189.9	221.6	245.3
95°	134.5	154.3	178.0	201.8	217.6
97.5°	126.6	146.4	166.2	189.9	201.8
100°	122.6	138.5	158.3	178.0	185.9
102.5°	118.7	130.6	150.3	166.2	178.0
105°	114.7	126.6	142.4	158.3	166.2
107.5°	106.8	118.7	134.5	150.3	158.3
110°	102.9	110.8	126.6	138.5	150.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.9	106.8	118.7	130.6	138.5
115°	91.0	98.9	110.8	118.7	126.6
117.5°	87.0	91.0	102.9	106.8	114.7
120°	79.1	83.1	95.0	98.9	102.9
122.5°	71.2	75.2	87.0	87.0	95.0
125°	67.3	67.3	79.1	79.1	83.1
127.5°	63.3	63.3	71.2	71.2	75.2
130°	55.4	55.4	63.3	63.3	63.3
132.5°	51.4	47.5	55.4	55.4	59.3
135°	47.5	43.5	47.5	47.5	51.4
137.5°	39.6	39.6	43.5	39.6	43.5
140°	35.6	31.7	35.6	35.6	39.6
142.5°	31.7	27.7	31.7	27.7	31.7
145°	27.7	23.7	23.7	23.7	27.7
147.5°	23.7	19.8	19.8	19.8	23.7
150°	19.8	15.8	15.8	15.8	19.8
152.5°	15.8	11.9	7.9	11.9	15.8
155°	11.9	11.9	4.0	7.9	11.9
157.5°	7.9	7.9	0.0	4.0	7.9
160°	4.0	4.0	0.0	4.0	4.0
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)