

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: P384712

Luminaire Tested: **24ID-75-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384712  
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-L840-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

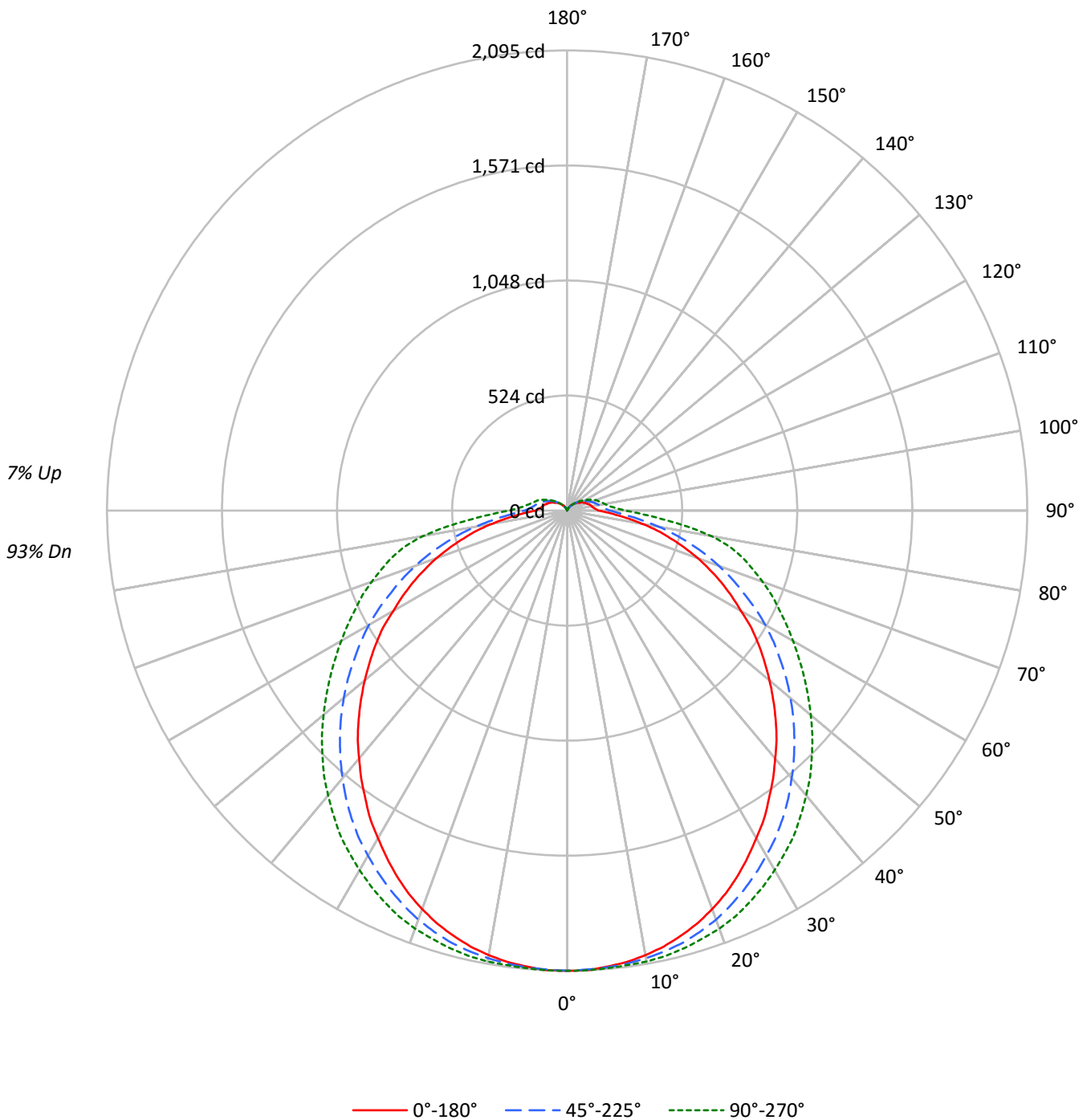
Lumens per Lamp: N/A  
Luminaire Lumens: 7331.4 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 70.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2819	2819	2819
5°	2800	2787	2794
10°	2777	2763	2786
15°	2745	2740	2779
20°	2703	2707	2774
25°	2648	2663	2759
30°	2582	2617	2739
35°	2520	2572	2723
40°	2459	2514	2691
45°	2403	2457	2665
50°	2343	2399	2638
55°	2291	2336	2620
60°	2220	2280	2629
65°	2176	2193	2671
70°	2124	2119	2773
75°	2050	2009	2929
80°	1987	1876	3017
85°	2008	1728	2719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	2.7
10°-20°	574.1	7.8
20°-30°	877.1	12.0
30°-40°	1067.6	14.6
40°-50°	1128.4	15.4
50°-60°	1065.1	14.5
60°-70°	896.1	12.2
70°-80°	646.1	8.8
80°-90°	340.7	4.6
90°-100°	182.4	2.5
100°-110°	138.5	1.9
110°-120°	100.5	1.4
120°-130°	63.1	0.9
130°-140°	34.1	0.5
140°-150°	14.9	0.2
150°-160°	4.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1649.8	22.5
0°-40°	2717.4	37.1
0°-60°	4910.9	67.0
0°-90°	6793.9	92.7
90°-120°	421.4	5.7
90°-150°	533.4	7.3
90°-180°	538.0	7.3
0°-180°	7331.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2084	2084	2088	2088	2091	198
15°	2004	2011	2037	2051	2062	565
25°	1836	1857	1905	1949	1967	845
35°	1602	1638	1711	1777	1803	1003
45°	1342	1382	1462	1543	1576	1036
55°	1064	1112	1185	1272	1316	951
65°	775	819	885	994	1064	766
75°	486	526	578	691	826	516
85°	223	252	282	351	428	209
90°	143	168	194	230	263	82
95°	124	143	164	186	201	99
105°	106	117	132	146	154	111
115°	84	91	102	110	117	85
125°	62	62	73	73	77	56
135°	44	40	44	44	48	33
145°	26	22	22	22	26	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°	2095.1	2095.1	2095.1	2095.1	2095.1
2.5°	2095.1	2091.4	2091.4	2091.4	2095.1
5°	2084.1	2084.1	2087.7	2087.7	2091.4
7.5°	2073.1	2073.1	2080.4	2084.1	2087.7
10°	2054.8	2058.5	2069.5	2076.8	2084.1
12.5°	2032.9	2036.6	2054.8	2069.5	2076.8
15°	2003.6	2011.0	2036.6	2051.2	2062.1
17.5°	1970.7	1981.7	2011.0	2032.9	2043.9
20°	1930.5	1945.1	1981.7	2011.0	2025.6
22.5°	1886.6	1901.3	1945.1	1981.7	2000.0
25°	1835.5	1857.4	1904.9	1948.8	1967.1
27.5°	1780.6	1806.2	1861.1	1912.2	1930.5
30°	1722.1	1751.4	1813.5	1868.4	1890.3
32.5°	1667.3	1696.5	1766.0	1824.5	1846.4
35°	1601.5	1638.0	1711.1	1777.0	1802.6
37.5°	1539.3	1575.9	1652.6	1722.1	1747.7
40°	1473.5	1510.0	1590.5	1667.3	1692.9
42.5°	1411.3	1447.9	1528.3	1608.8	1638.0
45°	1341.9	1382.1	1462.5	1543.0	1575.9
47.5°	1272.4	1312.6	1396.7	1480.8	1513.7
50°	1202.9	1246.8	1327.2	1411.3	1447.9
52.5°	1133.4	1177.3	1257.8	1345.5	1382.1
55°	1064.0	1111.5	1184.6	1272.4	1316.3
57.5°	994.5	1042.0	1115.2	1206.6	1250.5
60°	914.1	968.9	1042.0	1137.1	1188.3
62.5°	844.6	892.1	965.3	1064.0	1126.1
65°	775.1	819.0	884.8	994.5	1064.0
67.5°	702.0	749.5	811.7	914.1	1009.1
70°	632.5	672.8	734.9	840.9	947.0
72.5°	559.4	599.6	658.1	767.8	884.8
75°	486.3	526.5	577.7	691.0	826.3
77.5°	420.5	453.4	500.9	610.6	756.9
80°	347.3	380.3	424.1	522.8	665.4
82.5°	281.5	310.8	347.3	435.1	548.4
85°	223.0	252.3	281.5	351.0	427.8
87.5°	179.2	201.1	230.3	281.5	332.7
90°	142.6	168.2	193.8	230.3	263.3
92.5°	131.6	153.6	175.5	204.8	226.7
95°	124.3	142.6	164.5	186.5	201.1
97.5°	117.0	135.3	153.6	175.5	186.5
100°	113.3	128.0	146.3	164.5	171.8
102.5°	109.7	120.7	138.9	153.6	164.5
105°	106.0	117.0	131.6	146.3	153.6
107.5°	98.7	109.7	124.3	138.9	146.3
110°	95.1	102.4	117.0	128.0	138.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	91.4	98.7	109.7	120.7	128.0
115°	84.1	91.4	102.4	109.7	117.0
117.5°	80.4	84.1	95.1	98.7	106.0
120°	73.1	76.8	87.8	91.4	95.1
122.5°	65.8	69.5	80.4	80.4	87.8
125°	62.2	62.2	73.1	73.1	76.8
127.5°	58.5	58.5	65.8	65.8	69.5
130°	51.2	51.2	58.5	58.5	58.5
132.5°	47.5	43.9	51.2	51.2	54.8
135°	43.9	40.2	43.9	43.9	47.5
137.5°	36.6	36.6	40.2	36.6	40.2
140°	32.9	29.3	32.9	32.9	36.6
142.5°	29.3	25.6	29.3	25.6	29.3
145°	25.6	21.9	21.9	21.9	25.6
147.5°	21.9	18.3	18.3	18.3	21.9
150°	18.3	14.6	14.6	14.6	18.3
152.5°	14.6	11.0	7.3	11.0	14.6
155°	11.0	11.0	3.7	7.3	11.0
157.5°	7.3	7.3	0.0	3.7	7.3
160°	3.7	3.7	0.0	3.7	3.7
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)