

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: P384704

Luminaire Tested: **24ID-65-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384704  
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-65-L840-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

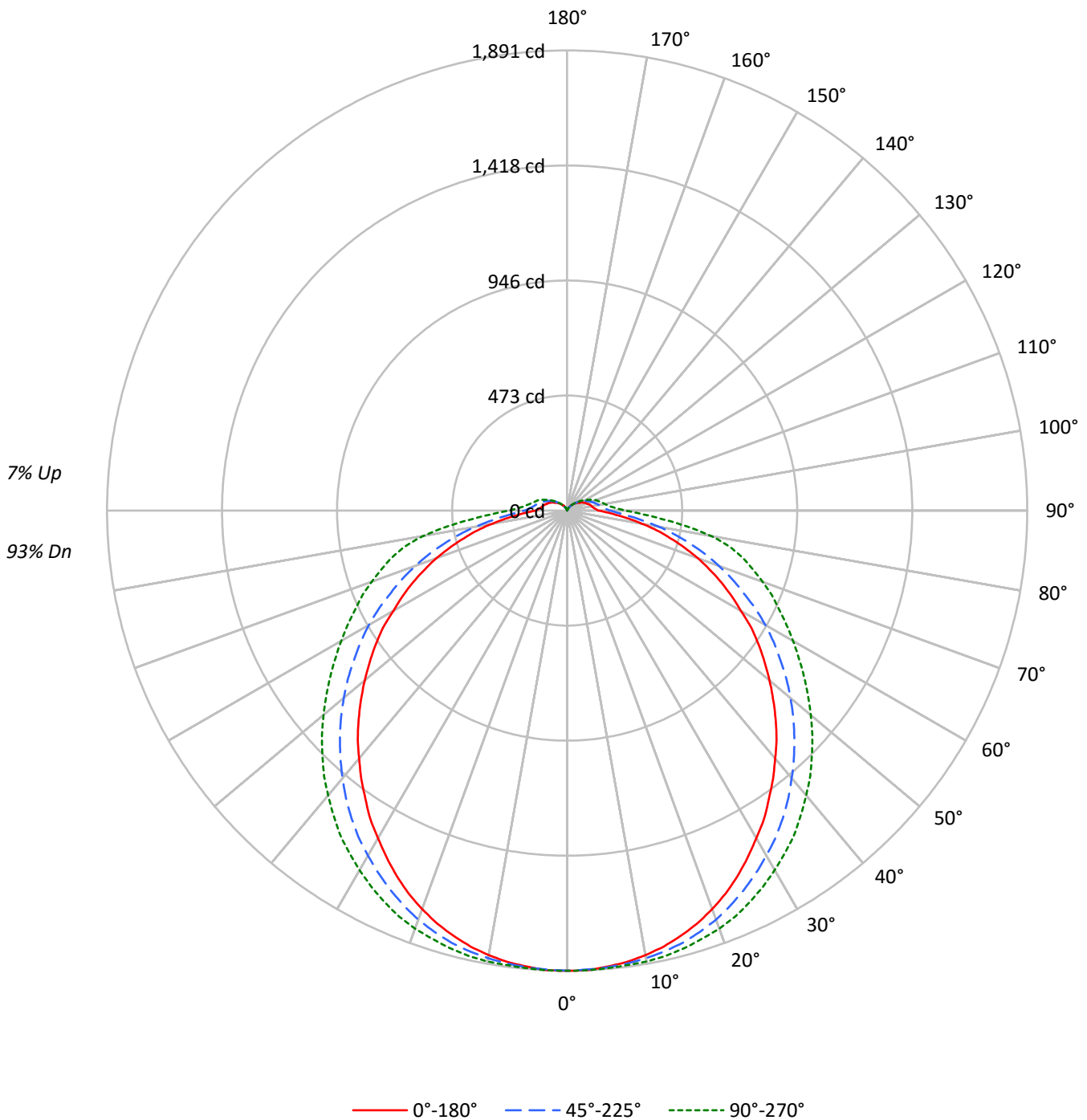
Lumens per Lamp: N/A  
Luminaire Lumens: 6617.4 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 63.6  
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°	2544	2544	2544
5°	2527	2516	2522
10°	2506	2494	2515
15°	2478	2473	2509
20°	2439	2443	2504
25°	2390	2404	2491
30°	2331	2362	2472
35°	2275	2321	2457
40°	2220	2269	2429
45°	2169	2218	2406
50°	2115	2166	2381
55°	2068	2109	2365
60°	2003	2058	2373
65°	1964	1980	2411
70°	1917	1913	2503
75°	1850	1813	2644
80°	1793	1693	2723
85°	1813	1559	2454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.3	2.7
10°-20°	518.1	7.8
20°-30°	791.6	12.0
30°-40°	963.6	14.6
40°-50°	1018.5	15.4
50°-60°	961.4	14.5
60°-70°	808.9	12.2
70°-80°	583.1	8.8
80°-90°	307.5	4.6
90°-100°	164.6	2.5
100°-110°	125.0	1.9
110°-120°	90.7	1.4
120°-130°	56.9	0.9
130°-140°	30.8	0.5
140°-150°	13.4	0.2
150°-160°	3.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1489.1	22.5
0°-40°	2452.7	37.1
0°-60°	4432.7	67.0
0°-90°	6132.3	92.7
90°-120°	380.3	5.7
90°-150°	481.4	7.3
90°-180°	485.0	7.3
0°-180°	6617.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1881	1881	1884	1884	1888	179
15°	1808	1815	1838	1851	1861	510
25°	1657	1676	1719	1759	1776	763
35°	1446	1478	1544	1604	1627	905
45°	1211	1248	1320	1393	1422	935
55°	960	1003	1069	1148	1188	858
65°	700	739	799	898	960	692
75°	439	475	521	624	746	466
85°	201	228	254	317	386	189
90°	129	152	175	208	238	74
95°	112	129	148	168	182	89
105°	96	106	119	132	139	100
115°	76	82	92	99	106	76
125°	56	56	66	66	69	50
135°	40	36	40	40	43	30
145°	23	20	20	20	23	15
155°	10	10	3	7	10	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°	1891.0	1891.0	1891.0	1891.0	1891.0
2.5°	1891.0	1887.7	1887.7	1887.7	1891.0
5°	1881.1	1881.1	1884.4	1884.4	1887.7
7.5°	1871.2	1871.2	1877.8	1881.1	1884.4
10°	1854.7	1858.0	1867.9	1874.5	1881.1
12.5°	1834.9	1838.2	1854.7	1867.9	1874.5
15°	1808.5	1815.1	1838.2	1851.4	1861.3
17.5°	1778.8	1788.7	1815.1	1834.9	1844.8
20°	1742.5	1755.7	1788.7	1815.1	1828.3
22.5°	1702.9	1716.1	1755.7	1788.7	1805.2
25°	1656.7	1676.5	1719.4	1759.0	1775.5
27.5°	1607.2	1630.3	1679.8	1726.0	1742.5
30°	1554.4	1580.8	1636.9	1686.4	1706.2
32.5°	1504.9	1531.3	1594.0	1646.8	1666.6
35°	1445.5	1478.5	1544.5	1603.9	1627.0
37.5°	1389.4	1422.4	1491.7	1554.4	1577.5
40°	1330.0	1363.0	1435.6	1504.9	1528.0
42.5°	1273.9	1306.9	1379.5	1452.1	1478.5
45°	1211.2	1247.5	1320.1	1392.7	1422.4
47.5°	1148.5	1184.8	1260.7	1336.6	1366.3
50°	1085.8	1125.4	1198.0	1273.9	1306.9
52.5°	1023.1	1062.7	1135.3	1214.5	1247.5
55°	960.4	1003.3	1069.3	1148.5	1188.1
57.5°	897.7	940.6	1006.6	1089.1	1128.7
60°	825.1	874.6	940.6	1026.4	1072.6
62.5°	762.4	805.3	871.3	960.4	1016.5
65°	699.7	739.3	798.7	897.7	960.4
67.5°	633.6	676.6	732.7	825.1	910.9
70°	570.9	607.2	663.4	759.1	854.8
72.5°	504.9	541.2	594.0	693.1	798.7
75°	438.9	475.2	521.4	623.7	745.9
77.5°	379.5	409.2	452.1	551.1	683.2
80°	313.5	343.2	382.8	471.9	600.6
82.5°	254.1	280.5	313.5	392.7	495.0
85°	201.3	227.7	254.1	316.8	386.1
87.5°	161.7	181.5	207.9	254.1	300.3
90°	128.7	151.8	174.9	207.9	237.6
92.5°	118.8	138.6	158.4	184.8	204.6
95°	112.2	128.7	148.5	168.3	181.5
97.5°	105.6	122.1	138.6	158.4	168.3
100°	102.3	115.5	132.0	148.5	155.1
102.5°	99.0	108.9	125.4	138.6	148.5
105°	95.7	105.6	118.8	132.0	138.6
107.5°	89.1	99.0	112.2	125.4	132.0
110°	85.8	92.4	105.6	115.5	125.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	82.5	89.1	99.0	108.9	115.5
115°	75.9	82.5	92.4	99.0	105.6
117.5°	72.6	75.9	85.8	89.1	95.7
120°	66.0	69.3	79.2	82.5	85.8
122.5°	59.4	62.7	72.6	72.6	79.2
125°	56.1	56.1	66.0	66.0	69.3
127.5°	52.8	52.8	59.4	59.4	62.7
130°	46.2	46.2	52.8	52.8	52.8
132.5°	42.9	39.6	46.2	46.2	49.5
135°	39.6	36.3	39.6	39.6	42.9
137.5°	33.0	33.0	36.3	33.0	36.3
140°	29.7	26.4	29.7	29.7	33.0
142.5°	26.4	23.1	26.4	23.1	26.4
145°	23.1	19.8	19.8	19.8	23.1
147.5°	19.8	16.5	16.5	16.5	19.8
150°	16.5	13.2	13.2	13.2	16.5
152.5°	13.2	9.9	6.6	9.9	13.2
155°	9.9	9.9	3.3	6.6	9.9
157.5°	6.6	6.6	0.0	3.3	6.6
160°	3.3	3.3	0.0	3.3	3.3
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)