

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: P384196

Luminaire Tested: **24ID-60-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384196  
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-60-L840-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

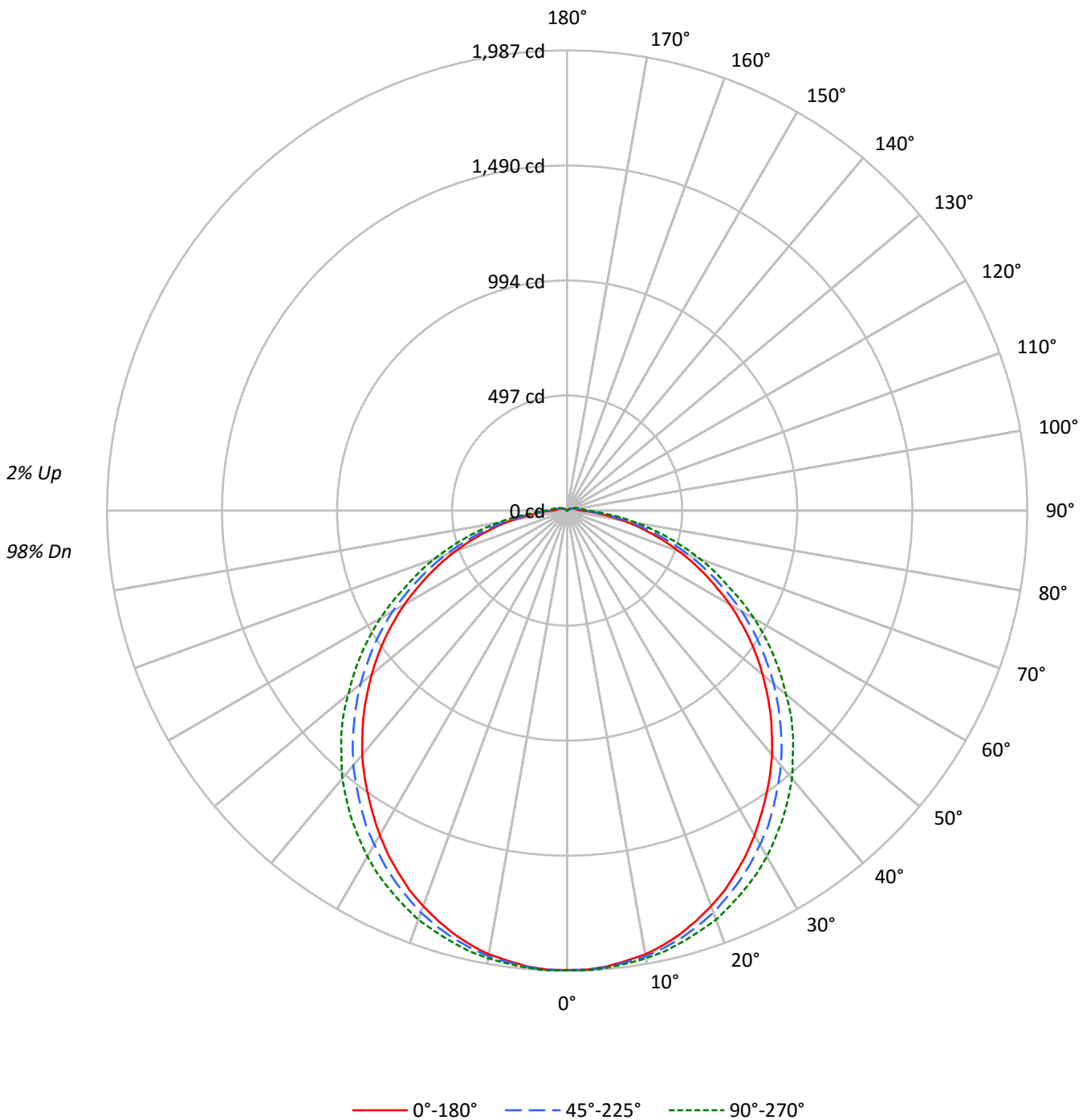
Lumens per Lamp: N/A  
Luminaire Lumens: 5876.6 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 54.6  
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	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°	2670	2670	2670
5°	2663	2662	2666
10°	2648	2650	2663
15°	2621	2629	2655
20°	2583	2603	2652
25°	2536	2566	2634
30°	2484	2523	2617
35°	2426	2478	2591
40°	2376	2432	2563
45°	2316	2373	2520
50°	2251	2316	2460
55°	2185	2248	2408
60°	2112	2175	2340
65°	2016	2062	2229
70°	1907	1954	2156
75°	1782	1808	2038
80°	1651	1643	1905
85°	1597	1528	1807



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.9	3.2
10°-20°	538.7	9.2
20°-30°	813.3	13.8
30°-40°	974.5	16.6
40°-50°	1007.5	17.1
50°-60°	912.3	15.5
60°-70°	706.0	12.0
70°-80°	433.7	7.4
80°-90°	172.3	2.9
90°-100°	62.9	1.1
100°-110°	38.6	0.7
110°-120°	19.9	0.3
120°-130°	8.5	0.1
130°-140°	0.6	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°	1539.9	26.2
0°-40°	2514.4	42.8
0°-60°	4434.2	75.5
0°-90°	5746.2	97.8
90°-120°	121.4	2.1
90°-150°	130.4	2.2
90°-180°	130.0	2.2
0°-180°	5876.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1975	1975	1978	1978	1981	188
15°	1892	1895	1910	1922	1928	533
25°	1725	1737	1764	1794	1808	795
35°	1499	1516	1555	1597	1624	938
45°	1242	1257	1302	1356	1379	958
55°	959	980	1019	1064	1087	857
65°	661	676	709	745	763	654
75°	369	387	405	432	453	394
85°	128	137	149	164	173	128
90°	60	68	74	83	89	35
95°	45	51	57	63	68	36
105°	33	33	36	39	42	35
115°	21	18	18	21	24	21
125°	12	9	6	9	12	11
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°	1984.2	1984.2	1984.2	1984.2	1984.2
2.5°	1984.2	1981.2	1984.2	1984.2	1987.2
5°	1975.3	1975.3	1978.3	1978.3	1981.2
7.5°	1960.4	1960.4	1966.3	1969.3	1972.3
10°	1945.5	1945.5	1954.4	1957.4	1963.4
12.5°	1921.6	1924.6	1933.6	1942.5	1948.5
15°	1891.9	1894.8	1909.7	1921.6	1927.6
17.5°	1856.1	1862.1	1879.9	1897.8	1903.8
20°	1817.4	1826.3	1847.2	1868.0	1879.9
22.5°	1775.7	1781.6	1805.5	1832.3	1844.2
25°	1725.0	1736.9	1763.7	1793.5	1808.4
27.5°	1674.4	1686.3	1716.1	1751.8	1769.7
30°	1617.8	1629.7	1665.4	1704.2	1725.0
32.5°	1558.2	1573.1	1614.8	1653.5	1674.4
35°	1498.6	1516.5	1555.2	1596.9	1623.7
37.5°	1439.0	1453.9	1495.6	1540.3	1567.1
40°	1376.4	1391.3	1436.0	1480.7	1510.5
42.5°	1307.9	1325.8	1370.5	1418.1	1442.0
45°	1242.4	1257.3	1302.0	1355.6	1379.4
47.5°	1170.9	1191.7	1233.4	1284.1	1310.9
50°	1102.3	1120.2	1164.9	1212.6	1233.4
52.5°	1030.8	1048.7	1090.4	1138.1	1161.9
55°	959.3	980.2	1018.9	1063.6	1087.4
57.5°	884.9	905.7	944.4	983.2	1010.0
60°	813.3	834.2	870.0	908.7	932.5
62.5°	732.9	750.8	789.5	831.2	849.1
65°	661.4	676.3	709.1	744.8	762.7
67.5°	586.9	604.8	634.6	667.4	688.2
70°	512.4	533.3	557.1	586.9	610.8
72.5°	440.9	458.8	479.7	509.5	530.3
75°	369.4	387.3	405.2	432.0	452.9
77.5°	306.9	315.8	333.7	357.5	378.4
80°	238.3	250.3	265.2	289.0	303.9
82.5°	178.8	190.7	202.6	220.5	235.4
85°	128.1	137.0	149.0	163.9	172.8
87.5°	86.4	95.3	104.3	116.2	125.1
90°	59.6	68.5	74.5	83.4	89.4
92.5°	50.6	56.6	62.6	68.5	74.5
95°	44.7	50.6	56.6	62.6	68.5
97.5°	41.7	44.7	50.6	56.6	59.6
100°	38.7	41.7	44.7	50.6	53.6
102.5°	35.8	35.8	41.7	44.7	47.7
105°	32.8	32.8	35.8	38.7	41.7
107.5°	29.8	29.8	32.8	32.8	38.7
110°	26.8	23.8	26.8	26.8	32.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.8	20.9	23.8	23.8	26.8
115°	20.9	17.9	17.9	20.9	23.8
117.5°	17.9	14.9	14.9	14.9	20.9
120°	17.9	14.9	11.9	11.9	17.9
122.5°	14.9	11.9	8.9	11.9	14.9
125°	11.9	8.9	6.0	8.9	11.9
127.5°	8.9	8.9	3.0	6.0	8.9
130°	8.9	6.0	3.0	6.0	6.0
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)