

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: P384192

Luminaire Tested: **24ID-55-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384192
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-55-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

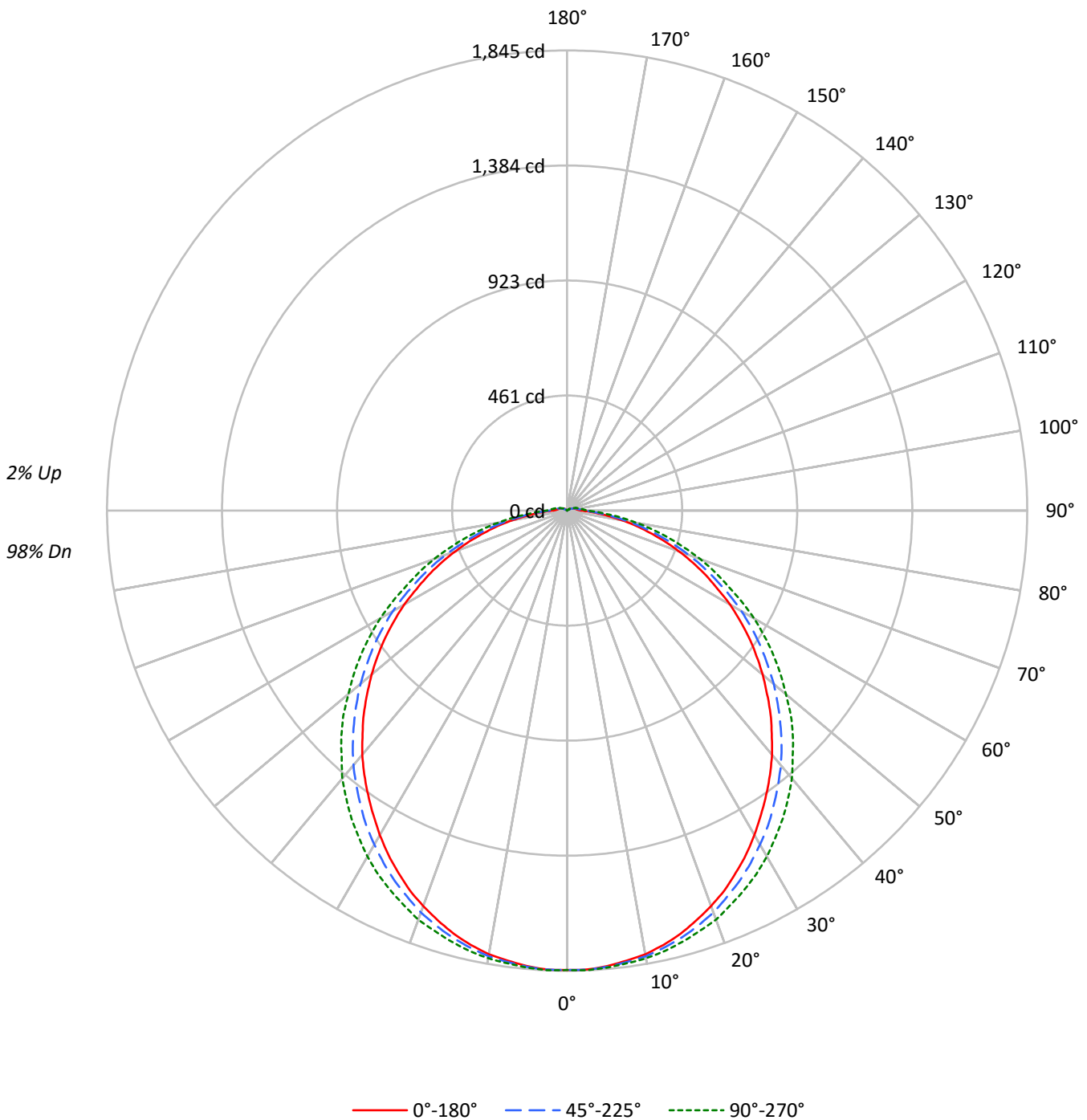
Lumens per Lamp: N/A
Luminaire Lumens: 5455.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 50.2
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	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°	2479	2479	2479
5°	2472	2471	2475
10°	2459	2460	2472
15°	2433	2441	2465
20°	2398	2417	2462
25°	2355	2382	2445
30°	2306	2342	2430
35°	2252	2300	2406
40°	2206	2258	2380
45°	2150	2203	2339
50°	2090	2151	2284
55°	2029	2087	2235
60°	1961	2019	2173
65°	1871	1914	2070
70°	1770	1814	2002
75°	1655	1679	1891
80°	1534	1525	1768
85°	1483	1419	1678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	3.2
10°-20°	500.1	9.2
20°-30°	755.0	13.8
30°-40°	904.7	16.6
40°-50°	935.3	17.1
50°-60°	847.0	15.5
60°-70°	655.4	12.0
70°-80°	402.6	7.4
80°-90°	160.0	2.9
90°-100°	58.4	1.1
100°-110°	35.9	0.7
110°-120°	18.4	0.3
120°-130°	7.9	0.1
130°-140°	0.5	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°	1429.6	26.2
0°-40°	2334.3	42.8
0°-60°	4116.6	75.5
0°-90°	5334.6	97.8
90°-120°	112.7	2.1
90°-150°	121.1	2.2
90°-180°	121.0	2.2
0°-180°	5455.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1834	1834	1837	1837	1839	174
15°	1756	1759	1773	1784	1790	495
25°	1602	1612	1637	1665	1679	738
35°	1391	1408	1444	1482	1507	871
45°	1153	1167	1209	1258	1281	889
55°	891	910	946	987	1010	796
65°	614	628	658	692	708	607
75°	343	360	376	401	420	366
85°	119	127	138	152	160	119
90°	55	64	69	77	83	33
95°	42	47	53	58	64	33
105°	30	30	33	36	39	32
115°	19	17	17	19	22	20
125°	11	8	6	8	11	10
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°	1842.1	1842.1	1842.1	1842.1	1842.1
2.5°	1842.1	1839.3	1842.1	1842.1	1844.9
5°	1833.8	1833.8	1836.6	1836.6	1839.3
7.5°	1820.0	1820.0	1825.5	1828.3	1831.0
10°	1806.1	1806.1	1814.4	1817.2	1822.7
12.5°	1784.0	1786.8	1795.1	1803.4	1808.9
15°	1756.4	1759.1	1772.9	1784.0	1789.5
17.5°	1723.2	1728.7	1745.3	1761.9	1767.4
20°	1687.2	1695.5	1714.9	1734.2	1745.3
22.5°	1648.5	1654.0	1676.1	1701.0	1712.1
25°	1601.5	1612.5	1637.4	1665.1	1678.9
27.5°	1554.4	1565.5	1593.2	1626.4	1642.9
30°	1501.9	1513.0	1546.1	1582.1	1601.5
32.5°	1446.6	1460.4	1499.1	1535.1	1554.4
35°	1391.3	1407.8	1443.8	1482.5	1507.4
37.5°	1335.9	1349.8	1388.5	1430.0	1454.9
40°	1277.8	1291.7	1333.2	1374.7	1402.3
42.5°	1214.2	1230.8	1272.3	1316.6	1338.7
45°	1153.4	1167.2	1208.7	1258.5	1280.6
47.5°	1087.0	1106.4	1145.1	1192.1	1217.0
50°	1023.4	1040.0	1081.5	1125.7	1145.1
52.5°	957.0	973.6	1012.3	1056.6	1078.7
55°	890.6	910.0	945.9	987.4	1009.6
57.5°	821.5	840.8	876.8	912.7	937.6
60°	755.1	774.5	807.6	843.6	865.7
62.5°	680.4	697.0	733.0	771.7	788.3
65°	614.0	627.9	658.3	691.5	708.1
67.5°	544.9	561.5	589.1	619.6	638.9
70°	475.7	495.1	517.2	544.9	567.0
72.5°	409.4	425.9	445.3	473.0	492.3
75°	343.0	359.6	376.2	401.1	420.4
77.5°	284.9	293.2	309.8	331.9	351.3
80°	221.3	232.3	246.2	268.3	282.1
82.5°	166.0	177.0	188.1	204.7	218.5
85°	118.9	127.2	138.3	152.1	160.4
87.5°	80.2	88.5	96.8	107.9	116.2
90°	55.3	63.6	69.1	77.4	83.0
92.5°	47.0	52.6	58.1	63.6	69.1
95°	41.5	47.0	52.6	58.1	63.6
97.5°	38.7	41.5	47.0	52.6	55.3
100°	36.0	38.7	41.5	47.0	49.8
102.5°	33.2	33.2	38.7	41.5	44.3
105°	30.4	30.4	33.2	36.0	38.7
107.5°	27.7	27.7	30.4	30.4	36.0
110°	24.9	22.1	24.9	24.9	30.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.1	19.4	22.1	22.1	24.9
115°	19.4	16.6	16.6	19.4	22.1
117.5°	16.6	13.8	13.8	13.8	19.4
120°	16.6	13.8	11.1	11.1	16.6
122.5°	13.8	11.1	8.3	11.1	13.8
125°	11.1	8.3	5.5	8.3	11.1
127.5°	8.3	8.3	2.8	5.5	8.3
130°	8.3	5.5	2.8	5.5	5.5
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)