

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: P384696

Luminaire Tested: **24ID-55-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384696
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-55-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

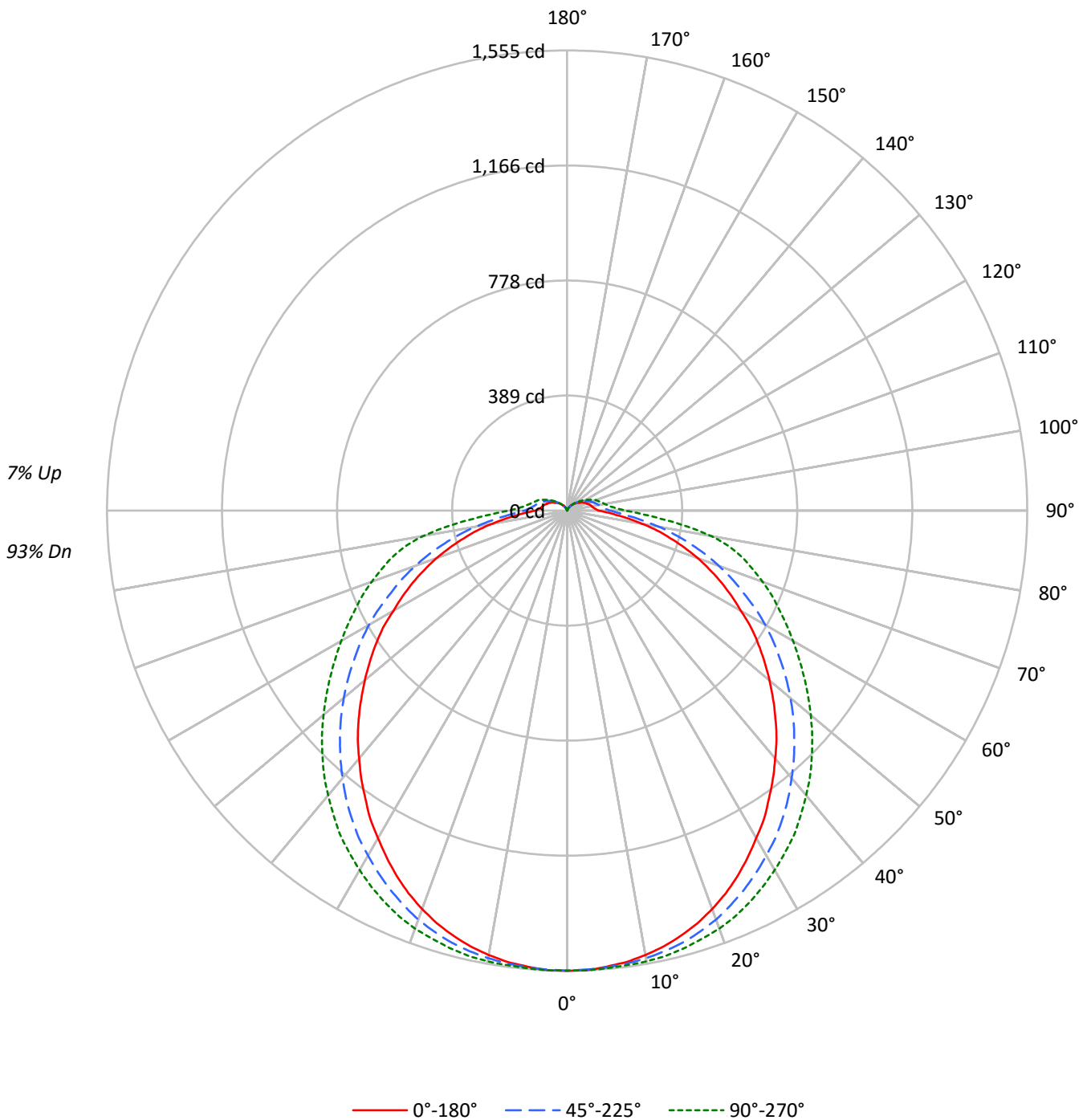
Lumens per Lamp: N/A
Luminaire Lumens: 5440.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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°	2092	2092	2092
5°	2078	2069	2074
10°	2061	2050	2068
15°	2037	2033	2063
20°	2006	2009	2059
25°	1965	1977	2048
30°	1916	1942	2033
35°	1870	1909	2020
40°	1825	1866	1997
45°	1783	1824	1978
50°	1739	1780	1958
55°	1700	1734	1944
60°	1647	1692	1951
65°	1615	1628	1982
70°	1576	1573	2058
75°	1521	1491	2174
80°	1475	1392	2239
85°	1490	1282	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.7
10°-20°	426.0	7.8
20°-30°	650.9	12.0
30°-40°	792.3	14.6
40°-50°	837.4	15.4
50°-60°	790.5	14.5
60°-70°	665.1	12.2
70°-80°	479.5	8.8
80°-90°	252.9	4.6
90°-100°	135.4	2.5
100°-110°	102.8	1.9
110°-120°	74.6	1.4
120°-130°	46.8	0.9
130°-140°	25.3	0.5
140°-150°	11.1	0.2
150°-160°	2.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1224.3	22.5
0°-40°	2016.7	37.1
0°-60°	3644.6	67.0
0°-90°	5042.0	92.7
90°-120°	312.7	5.7
90°-150°	395.9	7.3
90°-180°	399.0	7.3
0°-180°	5440.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1547	1547	1549	1549	1552	147
15°	1487	1492	1511	1522	1530	419
25°	1362	1378	1414	1446	1460	627
35°	1188	1216	1270	1319	1338	744
45°	996	1026	1085	1145	1170	769
55°	790	825	879	944	977	706
65°	575	608	657	738	790	569
75°	361	391	429	513	613	383
85°	166	187	209	260	318	155
90°	106	125	144	171	195	61
95°	92	106	122	138	149	74
105°	79	87	98	108	114	82
115°	62	68	76	81	87	63
125°	46	46	54	54	57	41
135°	33	30	33	33	35	25
145°	19	16	16	16	19	12
155°	8	8	3	5	8	4
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°	1554.8	1554.8	1554.8	1554.8	1554.8
2.5°	1554.8	1552.1	1552.1	1552.1	1554.8
5°	1546.7	1546.7	1549.4	1549.4	1552.1
7.5°	1538.5	1538.5	1544.0	1546.7	1549.4
10°	1525.0	1527.7	1535.8	1541.2	1546.7
12.5°	1508.7	1511.4	1525.0	1535.8	1541.2
15°	1487.0	1492.4	1511.4	1522.3	1530.4
17.5°	1462.6	1470.7	1492.4	1508.7	1516.8
20°	1432.7	1443.6	1470.7	1492.4	1503.3
22.5°	1400.1	1411.0	1443.6	1470.7	1484.3
25°	1362.2	1378.4	1413.7	1446.3	1459.8
27.5°	1321.5	1340.5	1381.2	1419.1	1432.7
30°	1278.0	1299.8	1345.9	1386.6	1402.9
32.5°	1237.3	1259.0	1310.6	1354.0	1370.3
35°	1188.5	1215.6	1269.9	1318.7	1337.7
37.5°	1142.4	1169.5	1226.5	1278.0	1297.0
40°	1093.5	1120.7	1180.4	1237.3	1256.3
42.5°	1047.4	1074.5	1134.2	1193.9	1215.6
45°	995.8	1025.7	1085.4	1145.1	1169.5
47.5°	944.3	974.1	1036.5	1099.0	1123.4
50°	892.7	925.3	985.0	1047.4	1074.5
52.5°	841.2	873.7	933.4	998.6	1025.7
55°	789.6	824.9	879.2	944.3	976.8
57.5°	738.1	773.3	827.6	895.4	928.0
60°	678.4	719.1	773.3	843.9	881.9
62.5°	626.8	662.1	716.4	789.6	835.7
65°	575.3	607.8	656.7	738.1	789.6
67.5°	521.0	556.3	602.4	678.4	748.9
70°	469.4	499.3	545.4	624.1	702.8
72.5°	415.2	445.0	488.4	569.8	656.7
75°	360.9	390.7	428.7	512.8	613.2
77.5°	312.0	336.5	371.7	453.1	561.7
80°	257.8	282.2	314.8	388.0	493.9
82.5°	208.9	230.6	257.8	322.9	407.0
85°	165.5	187.2	208.9	260.5	317.5
87.5°	133.0	149.2	170.9	208.9	246.9
90°	105.8	124.8	143.8	170.9	195.4
92.5°	97.7	114.0	130.2	152.0	168.2
95°	92.3	105.8	122.1	138.4	149.2
97.5°	86.8	100.4	114.0	130.2	138.4
100°	84.1	95.0	108.5	122.1	127.5
102.5°	81.4	89.5	103.1	114.0	122.1
105°	78.7	86.8	97.7	108.5	114.0
107.5°	73.3	81.4	92.3	103.1	108.5
110°	70.6	76.0	86.8	95.0	103.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.8	73.3	81.4	89.5	95.0
115°	62.4	67.8	76.0	81.4	86.8
117.5°	59.7	62.4	70.6	73.3	78.7
120°	54.3	57.0	65.1	67.8	70.6
122.5°	48.8	51.6	59.7	59.7	65.1
125°	46.1	46.1	54.3	54.3	57.0
127.5°	43.4	43.4	48.8	48.8	51.6
130°	38.0	38.0	43.4	43.4	43.4
132.5°	35.3	32.6	38.0	38.0	40.7
135°	32.6	29.8	32.6	32.6	35.3
137.5°	27.1	27.1	29.8	27.1	29.8
140°	24.4	21.7	24.4	24.4	27.1
142.5°	21.7	19.0	21.7	19.0	21.7
145°	19.0	16.3	16.3	16.3	19.0
147.5°	16.3	13.6	13.6	13.6	16.3
150°	13.6	10.9	10.9	10.9	13.6
152.5°	10.9	8.1	5.4	8.1	10.9
155°	8.1	8.1	2.7	5.4	8.1
157.5°	5.4	5.4	0.0	2.7	5.4
160°	2.7	2.7	0.0	2.7	2.7
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)