

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: P384644

Luminaire Tested: **22ID-55-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384644
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: 22ID-55-L840-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

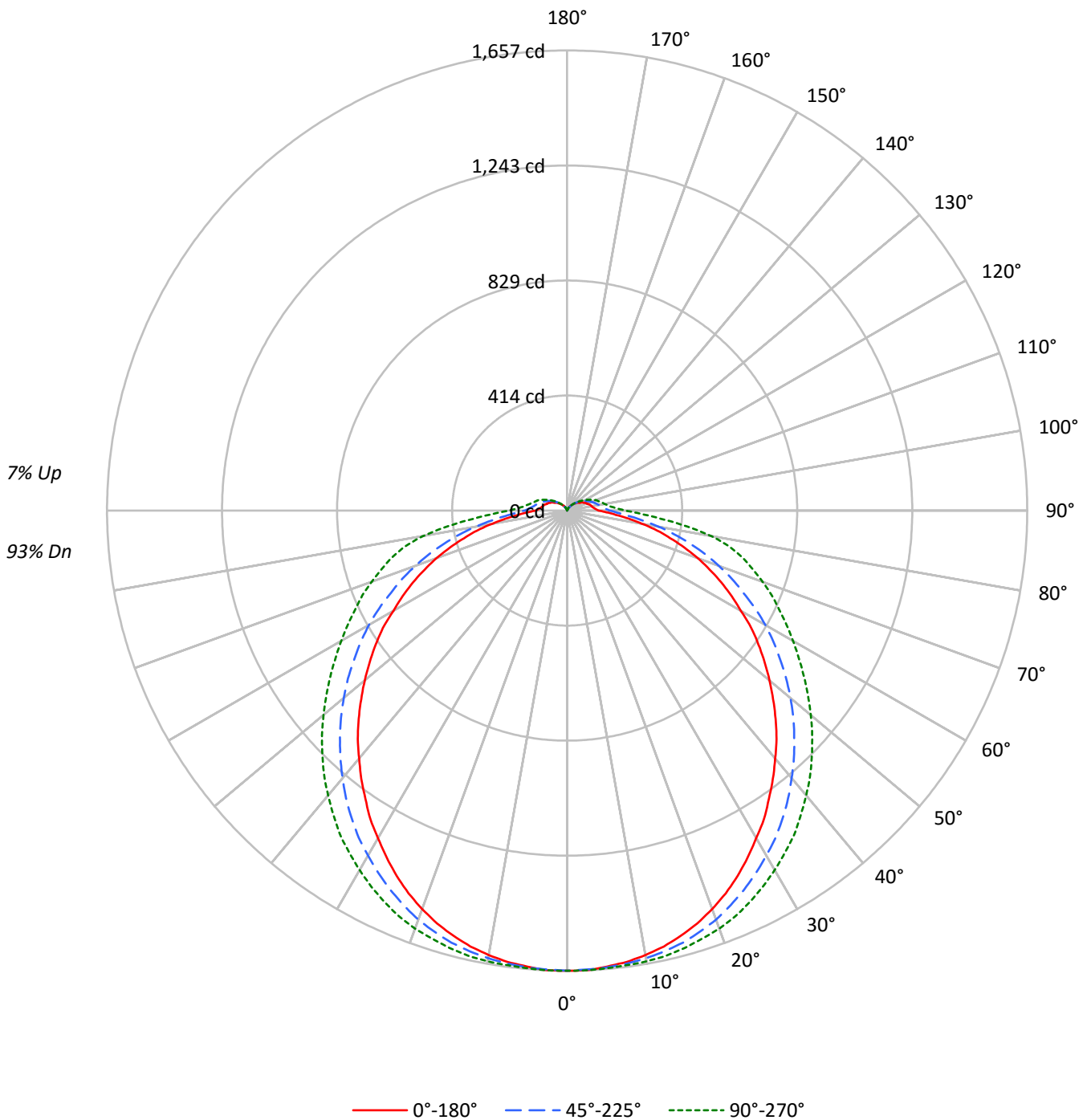
Lumens per Lamp: N/A
Luminaire Lumens: 5798.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 46.3
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°	4459	4459	4459
5°	4404	4392	4420
10°	4345	4337	4407
15°	4271	4284	4396
20°	4182	4217	4388
25°	4073	4132	4365
30°	3947	4044	4332
35°	3826	3956	4306
40°	3705	3848	4257
45°	3590	3740	4216
50°	3466	3629	4172
55°	3350	3510	4144
60°	3198	3396	4158
65°	3078	3231	4225
70°	2929	3078	4386
75°	2727	2862	4633
80°	2491	2595	4773
85°	2242	2275	4301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	2.7
10°-20°	454.0	7.8
20°-30°	693.6	12.0
30°-40°	844.3	14.6
40°-50°	892.4	15.4
50°-60°	842.4	14.5
60°-70°	708.7	12.2
70°-80°	510.9	8.8
80°-90°	269.5	4.6
90°-100°	144.2	2.5
100°-110°	109.5	1.9
110°-120°	79.5	1.4
120°-130°	49.9	0.9
130°-140°	27.0	0.5
140°-150°	11.8	0.2
150°-160°	3.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1304.7	22.5
0°-40°	2149.0	37.1
0°-60°	3883.8	67.0
0°-90°	5372.9	92.7
90°-120°	333.2	5.7
90°-150°	421.8	7.3
90°-180°	425.0	7.3
0°-180°	5798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1648	1648	1651	1651	1654	157
15°	1585	1590	1611	1622	1631	447
25°	1452	1469	1506	1541	1556	668
35°	1266	1295	1353	1405	1426	793
45°	1061	1093	1157	1220	1246	819
55°	841	879	937	1006	1041	752
65°	613	648	700	786	841	606
75°	385	416	457	546	654	408
85°	176	200	223	278	338	165
90°	113	133	153	182	208	65
95°	98	113	130	148	159	78
105°	84	92	104	116	121	88
115°	66	72	81	87	92	67
125°	49	49	58	58	61	44
135°	35	32	35	35	38	26
145°	20	17	17	17	20	13
155°	9	9	3	6	9	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°	1656.9	1656.9	1656.9	1656.9	1656.9
2.5°	1656.9	1654.0	1654.0	1654.0	1656.9
5°	1648.2	1648.2	1651.1	1651.1	1654.0
7.5°	1639.5	1639.5	1645.3	1648.2	1651.1
10°	1625.1	1627.9	1636.6	1642.4	1648.2
12.5°	1607.7	1610.6	1625.1	1636.6	1642.4
15°	1584.6	1590.4	1610.6	1622.2	1630.8
17.5°	1558.5	1567.2	1590.4	1607.7	1616.4
20°	1526.7	1538.3	1567.2	1590.4	1601.9
22.5°	1492.0	1503.6	1538.3	1567.2	1581.7
25°	1451.6	1468.9	1506.5	1541.2	1555.7
27.5°	1408.2	1428.4	1471.8	1512.3	1526.7
30°	1361.9	1385.1	1434.2	1477.6	1494.9
32.5°	1318.6	1341.7	1396.6	1442.9	1460.2
35°	1266.5	1295.4	1353.2	1405.3	1425.5
37.5°	1217.3	1246.3	1307.0	1361.9	1382.2
40°	1165.3	1194.2	1257.8	1318.6	1338.8
42.5°	1116.1	1145.1	1208.7	1272.3	1295.4
45°	1061.2	1093.0	1156.6	1220.2	1246.3
47.5°	1006.3	1038.1	1104.6	1171.1	1197.1
50°	951.3	986.0	1049.6	1116.1	1145.1
52.5°	896.4	931.1	994.7	1064.1	1093.0
55°	841.4	879.0	936.9	1006.3	1041.0
57.5°	786.5	824.1	881.9	954.2	988.9
60°	722.9	766.3	824.1	899.3	939.8
62.5°	667.9	705.5	763.4	841.4	890.6
65°	613.0	647.7	699.8	786.5	841.4
67.5°	555.2	592.8	641.9	722.9	798.1
70°	500.2	532.0	581.2	665.1	748.9
72.5°	442.4	474.2	520.5	607.2	699.8
75°	384.6	416.4	456.9	546.5	653.5
77.5°	332.5	358.6	396.1	482.9	598.6
80°	274.7	300.7	335.4	413.5	526.3
82.5°	222.6	245.8	274.7	344.1	433.7
85°	176.4	199.5	222.6	277.6	338.3
87.5°	141.7	159.0	182.2	222.6	263.1
90°	112.8	133.0	153.3	182.2	208.2
92.5°	104.1	121.4	138.8	161.9	179.3
95°	98.3	112.8	130.1	147.5	159.0
97.5°	92.5	107.0	121.4	138.8	147.5
100°	89.6	101.2	115.7	130.1	135.9
102.5°	86.7	95.4	109.9	121.4	130.1
105°	83.9	92.5	104.1	115.7	121.4
107.5°	78.1	86.7	98.3	109.9	115.7
110°	75.2	81.0	92.5	101.2	109.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.3	78.1	86.7	95.4	101.2
115°	66.5	72.3	81.0	86.7	92.5
117.5°	63.6	66.5	75.2	78.1	83.9
120°	57.8	60.7	69.4	72.3	75.2
122.5°	52.0	54.9	63.6	63.6	69.4
125°	49.2	49.2	57.8	57.8	60.7
127.5°	46.3	46.3	52.0	52.0	54.9
130°	40.5	40.5	46.3	46.3	46.3
132.5°	37.6	34.7	40.5	40.5	43.4
135°	34.7	31.8	34.7	34.7	37.6
137.5°	28.9	28.9	31.8	28.9	31.8
140°	26.0	23.1	26.0	26.0	28.9
142.5°	23.1	20.2	23.1	20.2	23.1
145°	20.2	17.3	17.3	17.3	20.2
147.5°	17.3	14.5	14.5	14.5	17.3
150°	14.5	11.6	11.6	11.6	14.5
152.5°	11.6	8.7	5.8	8.7	11.6
155°	8.7	8.7	2.9	5.8	8.7
157.5°	5.8	5.8	0.0	2.9	5.8
160°	2.9	2.9	0.0	2.9	2.9
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)