

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: P384272

Luminaire Tested: **14ID-80-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-80-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

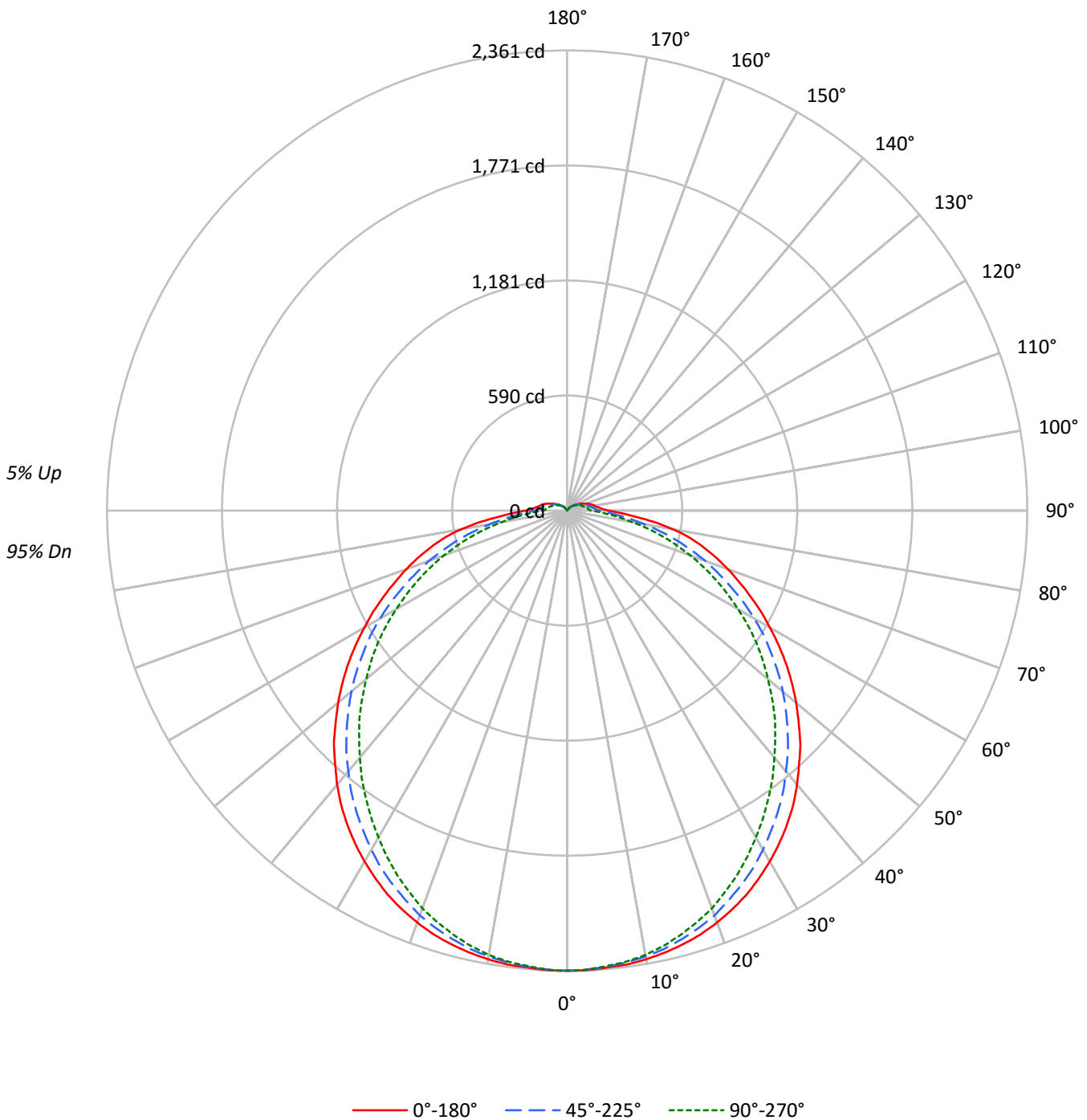
Lumens per Lamp: N/A
Luminaire Lumens: 7657.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77.1
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6353	6353	6353
5°	6334	6266	6245
10°	6341	6185	6144
15°	6345	6100	6008
20°	6344	6007	5863
25°	6336	5883	5685
30°	6308	5754	5487
35°	6278	5615	5297
40°	6230	5461	5097
45°	6183	5306	4916
50°	6118	5147	4697
55°	6074	4958	4496
60°	6032	4755	4228
65°	6053	4487	3952
70°	6192	4220	3628
75°	6502	3862	3220
80°	6927	3393	2709
85°	7274	2934	2218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	2.9
10°-20°	642.5	8.4
20°-30°	975.9	12.7
30°-40°	1178.8	15.4
40°-50°	1233.8	16.1
50°-60°	1144.9	15.0
60°-70°	927.3	12.1
70°-80°	625.8	8.2
80°-90°	302.3	3.9
90°-100°	152.1	2.0
100°-110°	110.6	1.4
110°-120°	73.9	1.0
120°-130°	42.8	0.6
130°-140°	21.6	0.3
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1841.9	24.1
0°-40°	3020.8	39.4
0°-60°	5399.4	70.5
0°-90°	7254.9	94.7
90°-120°	336.6	4.4
90°-150°	402.6	5.3
90°-180°	403.0	5.3
0°-180°	7657.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2361	2361	2361	2361	2361	
5°	2353	2349	2349	2346	2346	224
15°	2303	2291	2276	2260	2253	651
25°	2176	2156	2118	2079	2063	1002
35°	1967	1940	1886	1828	1801	1230
45°	1692	1662	1600	1534	1507	1304
55°	1372	1341	1279	1217	1186	1226
65°	1036	997	927	877	842	1028
75°	723	649	576	533	502	761
85°	348	301	255	232	209	329
90°	209	189	162	147	124	119
95°	166	155	139	124	108	131
105°	124	116	104	93	85	132
115°	85	77	77	66	66	85
125°	54	46	50	42	46	47
135°	31	27	27	27	31	24
145°	0	0	0	0	0	2
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°	2361.0	2361.0	2361.0	2361.0	2361.0
2.5°	2361.0	2357.1	2357.1	2357.1	2357.1
5°	2353.2	2349.4	2349.4	2345.5	2345.5
7.5°	2349.4	2341.6	2337.8	2333.9	2333.9
10°	2337.8	2330.0	2322.3	2314.6	2314.6
12.5°	2322.3	2314.6	2303.0	2287.5	2287.5
15°	2303.0	2291.4	2275.9	2260.5	2252.8
17.5°	2279.8	2268.2	2245.0	2221.8	2214.1
20°	2248.9	2233.4	2210.3	2179.3	2171.6
22.5°	2214.1	2198.7	2163.9	2133.0	2117.5
25°	2175.5	2156.2	2117.5	2078.9	2063.4
27.5°	2129.1	2109.8	2067.3	2020.9	2001.6
30°	2078.9	2055.7	2009.3	1959.1	1935.9
32.5°	2024.8	1997.7	1947.5	1893.4	1870.2
35°	1966.8	1939.8	1885.7	1827.7	1800.7
37.5°	1905.0	1877.9	1820.0	1758.2	1731.1
40°	1835.4	1808.4	1746.6	1684.7	1653.8
42.5°	1762.0	1738.8	1677.0	1611.3	1580.4
45°	1692.5	1661.6	1599.7	1534.0	1507.0
47.5°	1611.3	1588.1	1522.4	1456.8	1425.8
50°	1534.0	1507.0	1445.2	1379.5	1344.7
52.5°	1452.9	1429.7	1364.0	1298.3	1267.4
55°	1371.7	1340.8	1279.0	1217.2	1186.3
57.5°	1286.7	1259.7	1197.9	1139.9	1101.3
60°	1201.7	1174.7	1109.0	1054.9	1012.4
62.5°	1120.6	1089.7	1020.1	962.2	927.4
65°	1035.6	996.9	927.4	877.1	842.4
67.5°	954.4	908.1	838.5	792.1	757.4
70°	877.1	823.0	753.5	707.1	672.3
72.5°	799.9	734.2	660.8	618.3	587.3
75°	722.6	649.2	575.7	533.2	502.3
77.5°	645.3	560.3	486.9	452.1	421.2
80°	552.6	471.4	401.9	371.0	340.0
82.5°	448.2	382.5	324.6	293.7	270.5
85°	347.8	301.4	255.0	231.8	208.7
87.5°	270.5	235.7	200.9	181.6	162.3
90°	208.7	189.3	162.3	146.8	123.7
92.5°	181.6	166.2	146.8	131.4	112.1
95°	166.2	154.6	139.1	123.7	108.2
97.5°	150.7	143.0	127.5	115.9	100.5
100°	143.0	131.4	119.8	108.2	96.6
102.5°	135.2	123.7	112.1	100.5	92.7
105°	123.7	115.9	104.3	92.7	85.0
107.5°	115.9	104.3	96.6	85.0	81.1
110°	104.3	96.6	88.9	81.1	77.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.7	88.9	81.1	73.4	69.6
115°	85.0	77.3	77.3	65.7	65.7
117.5°	77.3	69.6	69.6	61.8	61.8
120°	65.7	61.8	61.8	54.1	54.1
122.5°	58.0	54.1	54.1	50.2	50.2
125°	54.1	46.4	50.2	42.5	46.4
127.5°	46.4	42.5	42.5	38.6	42.5
130°	38.6	34.8	34.8	34.8	38.6
132.5°	34.8	30.9	30.9	30.9	34.8
135°	30.9	27.0	27.0	27.0	30.9
137.5°	27.0	23.2	19.3	23.2	27.0
140°	23.2	19.3	15.5	19.3	23.2
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)