

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: P384276

Luminaire Tested: **14ID-85-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384276
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-85-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

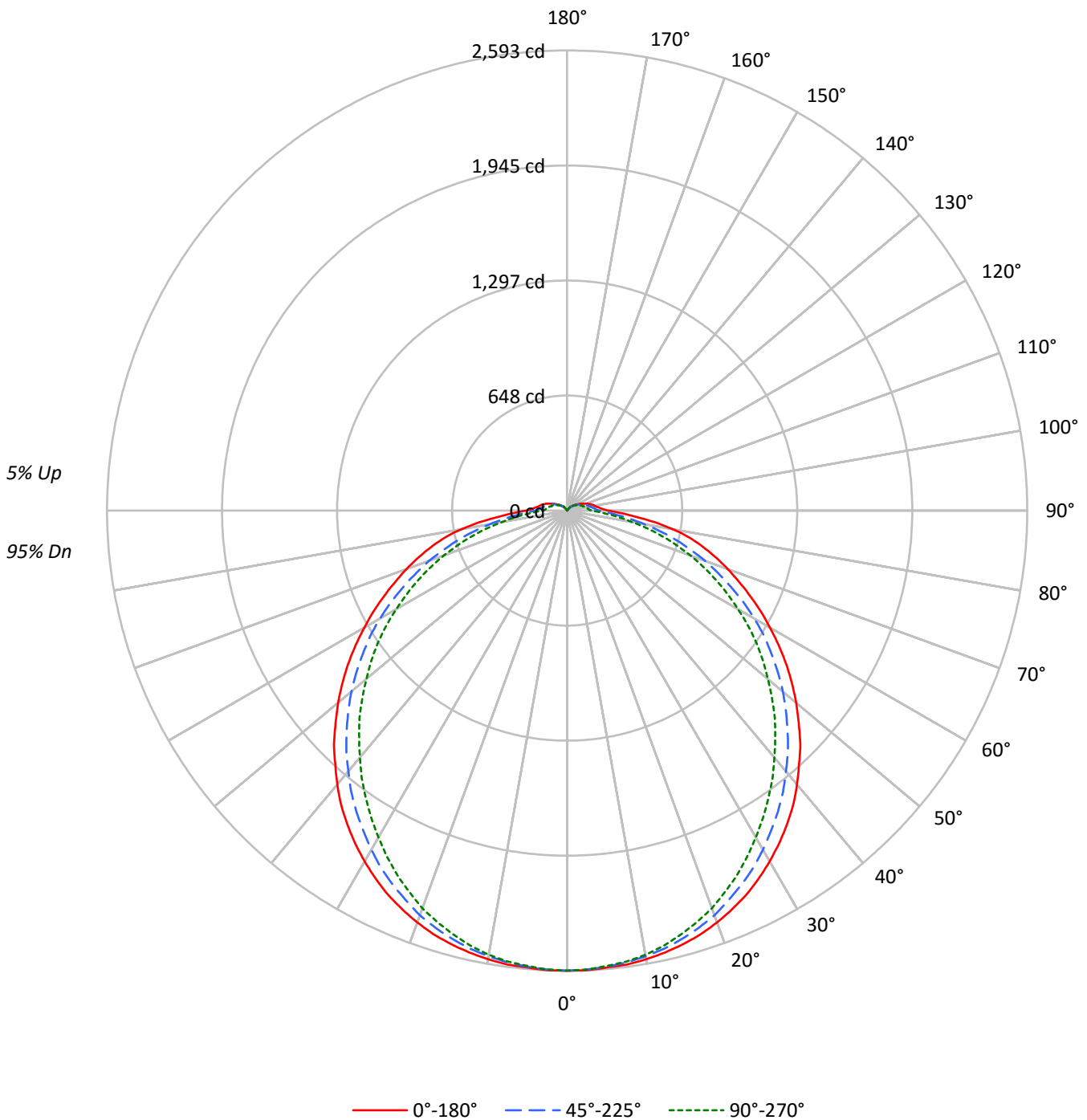
Lumens per Lamp: N/A
Luminaire Lumens: 8408.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 83.3
Input Voltage (V): NR
Input Current (Ain): 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°	6977	6977	6977
5°	6955	6880	6857
10°	6963	6792	6747
15°	6967	6698	6597
20°	6966	6597	6438
25°	6958	6460	6243
30°	6927	6319	6026
35°	6894	6166	5817
40°	6841	5996	5597
45°	6790	5827	5398
50°	6718	5652	5157
55°	6670	5444	4937
60°	6624	5222	4643
65°	6647	4928	4339
70°	6800	4634	3984
75°	7140	4241	3536
80°	7606	3726	2975
85°	7987	3222	2435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	2.9
10°-20°	705.6	8.4
20°-30°	1071.7	12.7
30°-40°	1294.5	15.4
40°-50°	1354.9	16.1
50°-60°	1257.2	15.0
60°-70°	1018.3	12.1
70°-80°	687.2	8.2
80°-90°	332.0	3.9
90°-100°	167.0	2.0
100°-110°	121.4	1.4
110°-120°	81.2	1.0
120°-130°	47.0	0.6
130°-140°	23.7	0.3
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2022.6	24.1
0°-40°	3317.1	39.4
0°-60°	5929.2	70.5
0°-90°	7966.7	94.7
90°-120°	369.6	4.4
90°-150°	442.1	5.3
90°-180°	442.0	5.3
0°-180°	8408.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2584	2580	2580	2576	2576	246
15°	2529	2516	2499	2482	2474	714
25°	2389	2368	2325	2283	2266	1101
35°	2160	2130	2071	2007	1977	1351
45°	1858	1825	1757	1684	1655	1432
55°	1506	1472	1404	1337	1303	1346
65°	1137	1095	1018	963	925	1129
75°	794	713	632	586	552	836
85°	382	331	280	255	229	361
90°	229	208	178	161	136	131
95°	182	170	153	136	119	143
105°	136	127	115	102	93	145
115°	93	85	85	72	72	93
125°	59	51	55	47	51	52
135°	34	30	30	30	34	26
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°	2592.6	2592.6	2592.6	2592.6	2592.6
2.5°	2592.6	2588.3	2588.3	2588.3	2588.3
5°	2584.1	2579.9	2579.9	2575.6	2575.6
7.5°	2579.9	2571.4	2567.1	2562.9	2562.9
10°	2567.1	2558.6	2550.2	2541.7	2541.7
12.5°	2550.2	2541.7	2528.9	2512.0	2512.0
15°	2528.9	2516.2	2499.2	2482.3	2473.8
17.5°	2503.5	2490.8	2465.3	2439.8	2431.3
20°	2469.5	2452.6	2427.1	2393.2	2384.7
22.5°	2431.3	2414.4	2376.2	2342.2	2325.3
25°	2388.9	2367.7	2325.3	2282.8	2265.9
27.5°	2338.0	2316.8	2270.1	2219.2	2198.0
30°	2282.8	2257.4	2206.5	2151.3	2125.8
32.5°	2223.4	2193.7	2138.6	2079.2	2053.7
35°	2159.8	2130.1	2070.7	2007.0	1977.3
37.5°	2091.9	2062.2	1998.5	1930.7	1901.0
40°	2015.5	1985.8	1917.9	1850.0	1816.1
42.5°	1934.9	1909.4	1841.5	1769.4	1735.5
45°	1858.5	1824.6	1756.7	1684.5	1654.8
47.5°	1769.4	1744.0	1671.8	1599.7	1565.7
50°	1684.5	1654.8	1587.0	1514.8	1476.6
52.5°	1595.4	1570.0	1497.8	1425.7	1391.8
55°	1506.3	1472.4	1404.5	1336.6	1302.7
57.5°	1413.0	1383.3	1315.4	1251.7	1209.3
60°	1319.6	1289.9	1217.8	1158.4	1111.7
62.5°	1230.5	1196.6	1120.2	1056.6	1018.4
65°	1137.2	1094.7	1018.4	963.2	925.0
67.5°	1048.1	997.2	920.8	869.9	831.7
70°	963.2	903.8	827.4	776.5	738.3
72.5°	878.3	806.2	725.6	678.9	645.0
75°	793.5	712.9	632.2	585.6	551.6
77.5°	708.6	615.3	534.6	496.5	462.5
80°	606.8	517.7	441.3	407.3	373.4
82.5°	492.2	420.1	356.4	322.5	297.0
85°	381.9	331.0	280.1	254.6	229.1
87.5°	297.0	258.8	220.6	199.4	178.2
90°	229.1	207.9	178.2	161.2	135.8
92.5°	199.4	182.5	161.2	144.3	123.1
95°	182.5	169.7	152.8	135.8	118.8
97.5°	165.5	157.0	140.0	127.3	110.3
100°	157.0	144.3	131.5	118.8	106.1
102.5°	148.5	135.8	123.1	110.3	101.8
105°	135.8	127.3	114.6	101.8	93.4
107.5°	127.3	114.6	106.1	93.4	89.1
110°	114.6	106.1	97.6	89.1	84.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.8	97.6	89.1	80.6	76.4
115°	93.4	84.9	84.9	72.1	72.1
117.5°	84.9	76.4	76.4	67.9	67.9
120°	72.1	67.9	67.9	59.4	59.4
122.5°	63.6	59.4	59.4	55.2	55.2
125°	59.4	50.9	55.2	46.7	50.9
127.5°	50.9	46.7	46.7	42.4	46.7
130°	42.4	38.2	38.2	38.2	42.4
132.5°	38.2	33.9	33.9	33.9	38.2
135°	33.9	29.7	29.7	29.7	33.9
137.5°	29.7	25.5	21.2	25.5	29.7
140°	25.5	21.2	17.0	21.2	25.5
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)