

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: P384248

Luminaire Tested: **14ID-50-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384248
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-50-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

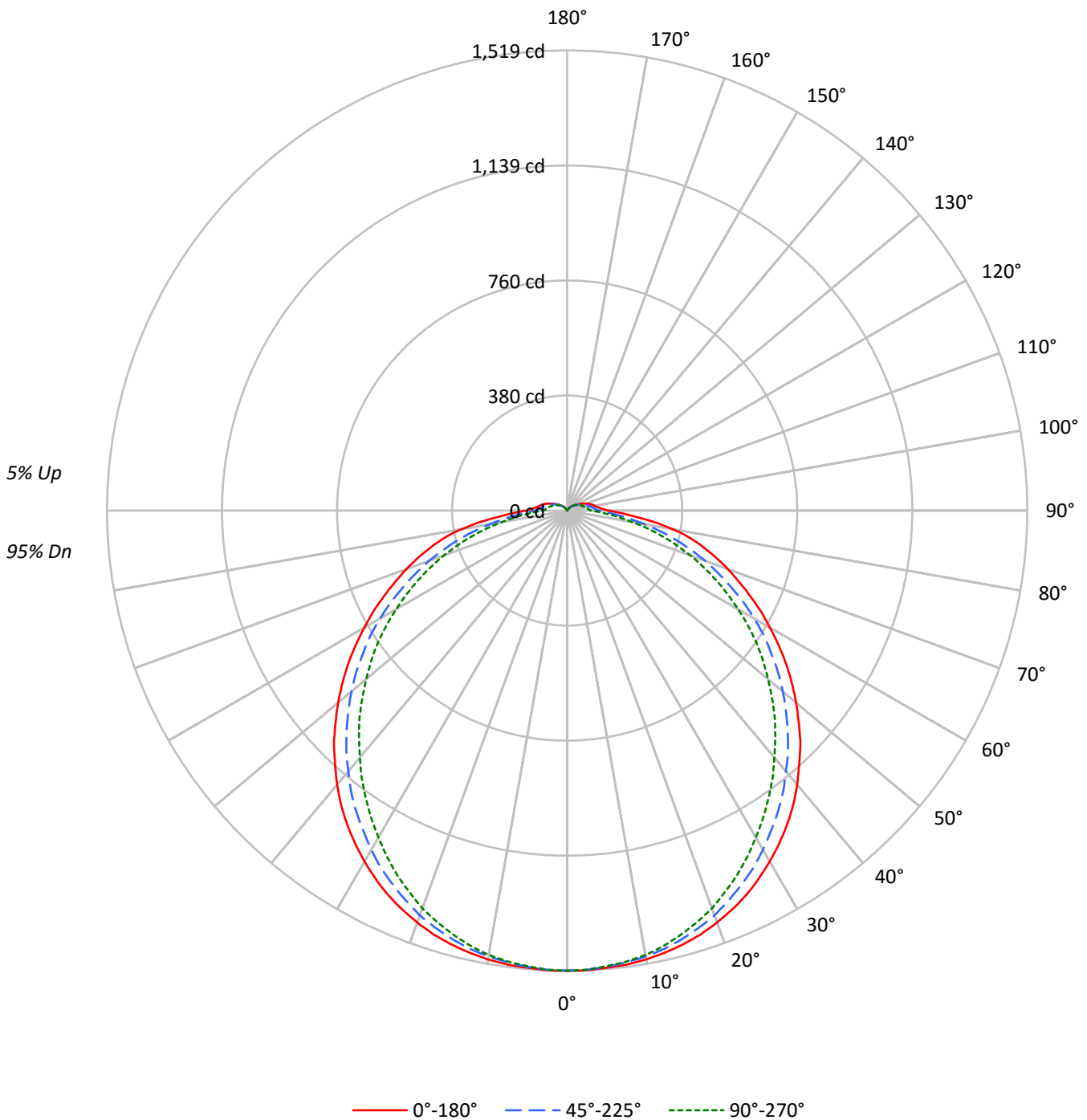
Lumens per Lamp: N/A
Luminaire Lumens: 4927.2 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 43.1
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°	4088	4088	4088
5°	4075	4032	4018
10°	4080	3980	3953
15°	4083	3925	3866
20°	4082	3865	3773
25°	4077	3785	3658
30°	4059	3702	3531
35°	4039	3613	3408
40°	4008	3513	3279
45°	3979	3414	3163
50°	3937	3312	3022
55°	3908	3190	2893
60°	3881	3060	2720
65°	3895	2887	2542
70°	3984	2715	2335
75°	4183	2486	2072
80°	4456	2183	1743
85°	4681	1888	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	2.9
10°-20°	413.4	8.4
20°-30°	628.0	12.7
30°-40°	758.5	15.4
40°-50°	793.9	16.1
50°-60°	736.7	15.0
60°-70°	596.7	12.1
70°-80°	402.7	8.2
80°-90°	194.6	3.9
90°-100°	97.9	2.0
100°-110°	71.1	1.4
110°-120°	47.6	1.0
120°-130°	27.5	0.6
130°-140°	13.9	0.3
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1185.2	24.1
0°-40°	1943.7	39.4
0°-60°	3474.2	70.5
0°-90°	4668.1	94.7
90°-120°	216.6	4.4
90°-150°	259.1	5.3
90°-180°	259.0	5.3
0°-180°	4927.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1514	1512	1512	1509	1509	144
15°	1482	1474	1464	1454	1450	419
25°	1400	1387	1362	1338	1328	645
35°	1266	1248	1213	1176	1159	792
45°	1089	1069	1029	987	970	839
55°	883	863	823	783	763	789
65°	666	642	597	564	542	661
75°	465	418	370	343	323	490
85°	224	194	164	149	134	211
90°	134	122	104	94	80	77
95°	107	100	90	80	70	84
105°	80	75	67	60	55	85
115°	55	50	50	42	42	54
125°	35	30	32	27	30	31
135°	20	17	17	17	20	16
145°	0	0	0	0	0	1
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°	1519.1	1519.1	1519.1	1519.1	1519.1
2.5°	1519.1	1516.7	1516.7	1516.7	1516.7
5°	1514.2	1511.7	1511.7	1509.2	1509.2
7.5°	1511.7	1506.7	1504.2	1501.7	1501.7
10°	1504.2	1499.3	1494.3	1489.3	1489.3
12.5°	1494.3	1489.3	1481.9	1471.9	1471.9
15°	1481.9	1474.4	1464.4	1454.5	1449.5
17.5°	1466.9	1459.5	1444.6	1429.6	1424.7
20°	1447.0	1437.1	1422.2	1402.3	1397.3
22.5°	1424.7	1414.7	1392.3	1372.5	1362.5
25°	1399.8	1387.4	1362.5	1337.6	1327.7
27.5°	1370.0	1357.5	1330.2	1300.4	1287.9
30°	1337.6	1322.7	1292.9	1260.6	1245.7
32.5°	1302.8	1285.4	1253.1	1218.3	1203.4
35°	1265.5	1248.1	1213.3	1176.0	1158.6
37.5°	1225.8	1208.4	1171.1	1131.3	1113.9
40°	1181.0	1163.6	1123.8	1084.0	1064.1
42.5°	1133.8	1118.8	1079.1	1036.8	1016.9
45°	1089.0	1069.1	1029.3	987.1	969.7
47.5°	1036.8	1021.9	979.6	937.3	917.5
50°	987.1	969.7	929.9	887.6	865.2
52.5°	934.9	919.9	877.7	835.4	815.5
55°	882.6	862.8	823.0	783.2	763.3
57.5°	827.9	810.5	770.8	733.5	708.6
60°	773.2	755.8	713.6	678.8	651.4
62.5°	721.0	701.1	656.4	619.1	596.7
65°	666.3	641.5	596.7	564.4	542.0
67.5°	614.1	584.3	539.5	509.7	487.3
70°	564.4	529.6	484.8	455.0	432.6
72.5°	514.7	472.4	425.2	397.8	377.9
75°	464.9	417.7	370.5	343.1	323.2
77.5°	415.2	360.5	313.3	290.9	271.0
80°	355.5	303.3	258.6	238.7	218.8
82.5°	288.4	246.1	208.9	189.0	174.0
85°	223.8	193.9	164.1	149.2	134.3
87.5°	174.0	151.7	129.3	116.9	104.4
90°	134.3	121.8	104.4	94.5	79.6
92.5°	116.9	106.9	94.5	84.5	72.1
95°	106.9	99.5	89.5	79.6	69.6
97.5°	97.0	92.0	82.0	74.6	64.6
100°	92.0	84.5	77.1	69.6	62.2
102.5°	87.0	79.6	72.1	64.6	59.7
105°	79.6	74.6	67.1	59.7	54.7
107.5°	74.6	67.1	62.2	54.7	52.2
110°	67.1	62.2	57.2	52.2	49.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.7	57.2	52.2	47.2	44.8
115°	54.7	49.7	49.7	42.3	42.3
117.5°	49.7	44.8	44.8	39.8	39.8
120°	42.3	39.8	39.8	34.8	34.8
122.5°	37.3	34.8	34.8	32.3	32.3
125°	34.8	29.8	32.3	27.3	29.8
127.5°	29.8	27.3	27.3	24.9	27.3
130°	24.9	22.4	22.4	22.4	24.9
132.5°	22.4	19.9	19.9	19.9	22.4
135°	19.9	17.4	17.4	17.4	19.9
137.5°	17.4	14.9	12.4	14.9	17.4
140°	14.9	12.4	9.9	12.4	14.9
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)