

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: P384640

Luminaire Tested: **22ID-50-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384640
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-50-L840-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

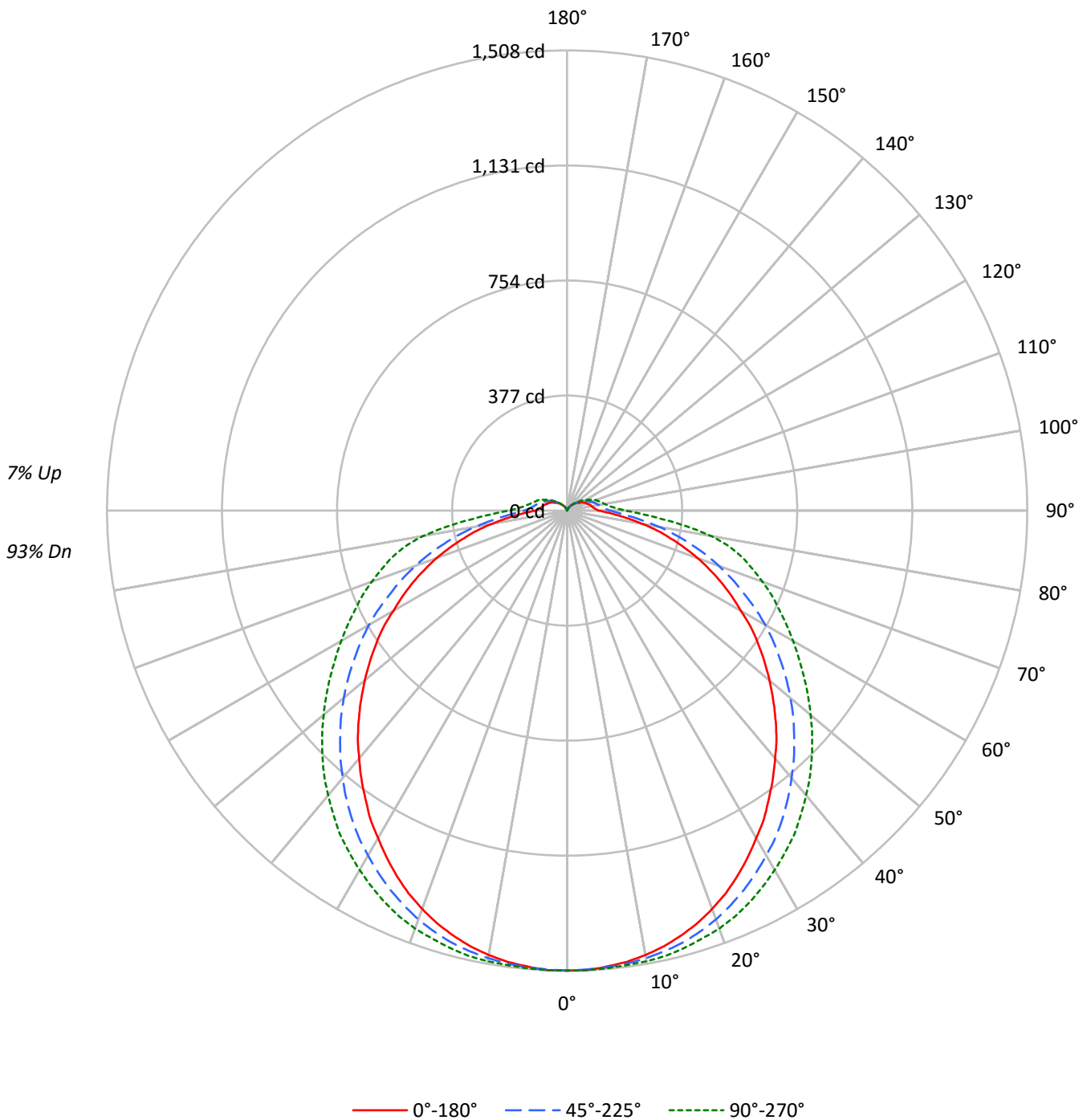
Lumens per Lamp: N/A
Luminaire Lumens: 5275.7 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 41.5
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°	4057	4057	4057
5°	4007	3996	4021
10°	3953	3946	4010
15°	3887	3898	4000
20°	3805	3837	3992
25°	3706	3760	3971
30°	3591	3679	3942
35°	3481	3599	3918
40°	3371	3501	3873
45°	3266	3403	3836
50°	3154	3303	3796
55°	3048	3193	3771
60°	2910	3090	3783
65°	2801	2940	3844
70°	2666	2800	3991
75°	2481	2604	4216
80°	2267	2362	4343
85°	2040	2071	3913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	2.7
10°-20°	413.1	7.8
20°-30°	631.1	12.0
30°-40°	768.3	14.6
40°-50°	812.0	15.4
50°-60°	766.5	14.5
60°-70°	644.9	12.2
70°-80°	464.9	8.8
80°-90°	245.2	4.6
90°-100°	131.2	2.5
100°-110°	99.7	1.9
110°-120°	72.3	1.4
120°-130°	45.4	0.9
130°-140°	24.5	0.5
140°-150°	10.7	0.2
150°-160°	2.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1187.2	22.5
0°-40°	1955.4	37.1
0°-60°	3533.9	67.0
0°-90°	4888.9	92.7
90°-120°	303.2	5.7
90°-150°	383.8	7.3
90°-180°	387.0	7.3
0°-180°	5275.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1500	1500	1502	1502	1505	143
15°	1442	1447	1466	1476	1484	407
25°	1321	1337	1371	1402	1416	608
35°	1152	1179	1231	1279	1297	722
45°	966	994	1052	1110	1134	745
55°	766	800	852	916	947	684
65°	558	589	637	716	766	551
75°	350	379	416	497	595	372
85°	160	182	203	253	308	150
90°	103	121	139	166	189	59
95°	90	103	118	134	145	71
105°	76	84	95	105	110	80
115°	60	66	74	79	84	61
125°	45	45	53	53	55	40
135°	32	29	32	32	34	24
145°	18	16	16	16	18	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1507.6	1505.0	1505.0	1505.0	1507.6
5°	1499.7	1499.7	1502.3	1502.3	1505.0
7.5°	1491.8	1491.8	1497.1	1499.7	1502.3
10°	1478.7	1481.3	1489.2	1494.5	1499.7
12.5°	1462.9	1465.5	1478.7	1489.2	1494.5
15°	1441.8	1447.1	1465.5	1476.0	1483.9
17.5°	1418.2	1426.0	1447.1	1462.9	1470.8
20°	1389.2	1399.7	1426.0	1447.1	1457.6
22.5°	1357.6	1368.2	1399.7	1426.0	1439.2
25°	1320.8	1336.6	1370.8	1402.4	1415.5
27.5°	1281.3	1299.8	1339.2	1376.1	1389.2
30°	1239.2	1260.3	1305.0	1344.5	1360.3
32.5°	1199.8	1220.8	1270.8	1312.9	1328.7
35°	1152.4	1178.7	1231.3	1278.7	1297.1
37.5°	1107.7	1134.0	1189.2	1239.2	1257.7
40°	1060.3	1086.6	1144.5	1199.8	1218.2
42.5°	1015.6	1041.9	1099.8	1157.7	1178.7
45°	965.6	994.5	1052.4	1110.3	1134.0
47.5°	915.6	944.6	1005.1	1065.6	1089.3
50°	865.6	897.2	955.1	1015.6	1041.9
52.5°	815.6	847.2	905.1	968.2	994.5
55°	765.6	799.8	852.5	915.6	947.2
57.5°	715.7	749.9	802.5	868.3	899.8
60°	657.8	697.2	749.9	818.3	855.1
62.5°	607.8	642.0	694.6	765.6	810.4
65°	557.8	589.4	636.7	715.7	765.6
67.5°	505.2	539.4	584.1	657.8	726.2
70°	455.2	484.1	528.8	605.1	681.4
72.5°	402.6	431.5	473.6	552.5	636.7
75°	349.9	378.9	415.7	497.3	594.6
77.5°	302.6	326.3	360.5	439.4	544.6
80°	250.0	273.6	305.2	376.2	478.9
82.5°	202.6	223.6	250.0	313.1	394.7
85°	160.5	181.5	202.6	252.6	307.8
87.5°	128.9	144.7	165.8	202.6	239.4
90°	102.6	121.0	139.4	165.8	189.4
92.5°	94.7	110.5	126.3	147.3	163.1
95°	89.5	102.6	118.4	134.2	144.7
97.5°	84.2	97.3	110.5	126.3	134.2
100°	81.6	92.1	105.2	118.4	123.7
102.5°	78.9	86.8	100.0	110.5	118.4
105°	76.3	84.2	94.7	105.2	110.5
107.5°	71.0	78.9	89.5	100.0	105.2
110°	68.4	73.7	84.2	92.1	100.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.8	71.0	78.9	86.8	92.1
115°	60.5	65.8	73.7	78.9	84.2
117.5°	57.9	60.5	68.4	71.0	76.3
120°	52.6	55.3	63.1	65.8	68.4
122.5°	47.4	50.0	57.9	57.9	63.1
125°	44.7	44.7	52.6	52.6	55.3
127.5°	42.1	42.1	47.4	47.4	50.0
130°	36.8	36.8	42.1	42.1	42.1
132.5°	34.2	31.6	36.8	36.8	39.5
135°	31.6	28.9	31.6	31.6	34.2
137.5°	26.3	26.3	28.9	26.3	28.9
140°	23.7	21.0	23.7	23.7	26.3
142.5°	21.0	18.4	21.0	18.4	21.0
145°	18.4	15.8	15.8	15.8	18.4
147.5°	15.8	13.2	13.2	13.2	15.8
150°	13.2	10.5	10.5	10.5	13.2
152.5°	10.5	7.9	5.3	7.9	10.5
155°	7.9	7.9	2.6	5.3	7.9
157.5°	5.3	5.3	0.0	2.6	5.3
160°	2.6	2.6	0.0	2.6	2.6
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)