

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: P384585

Luminaire Tested: **14ID-50-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384585
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: 14ID-50-L850-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

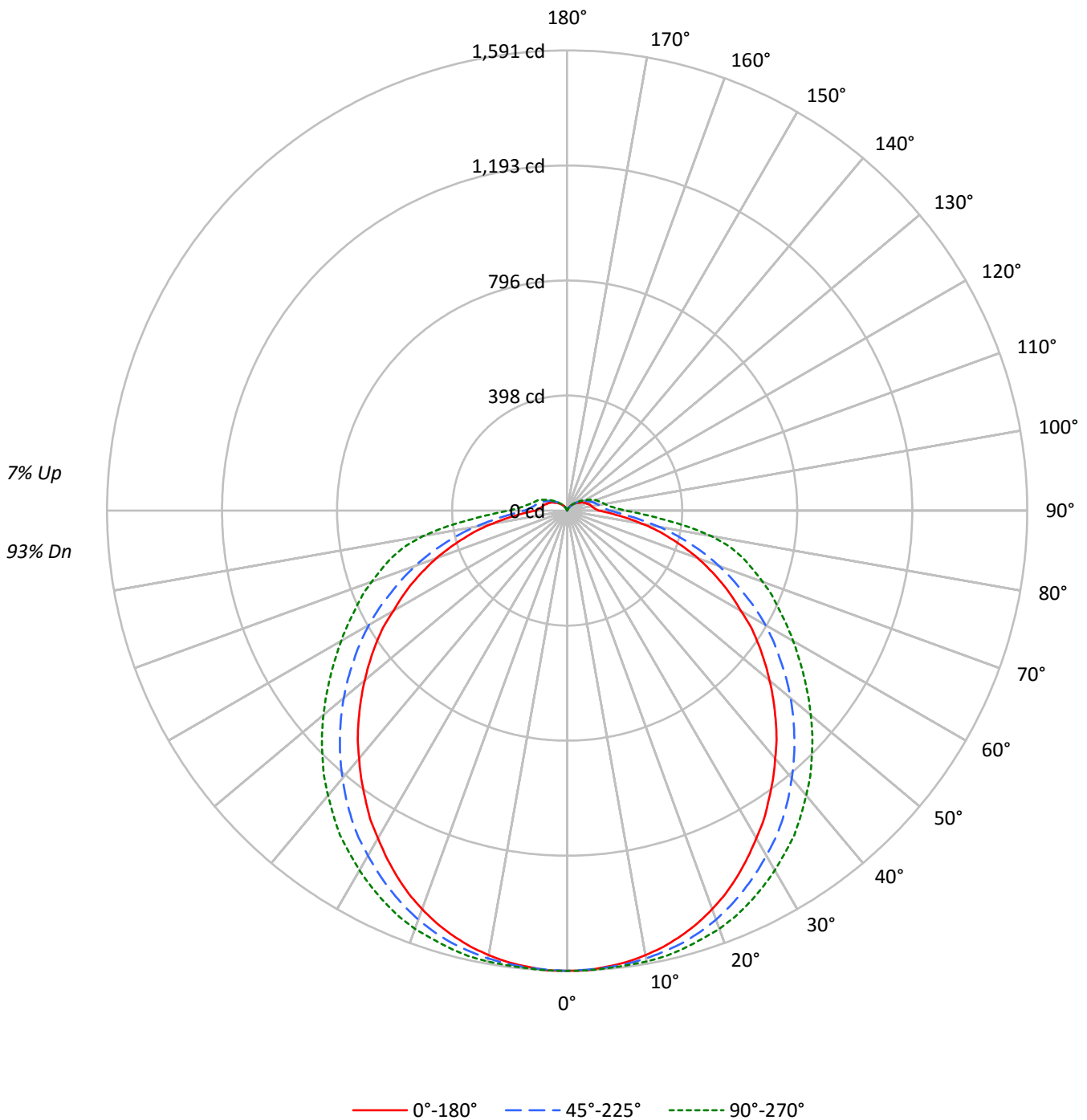
Lumens per Lamp: N/A
Luminaire Lumens: 5568.9 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 43.1
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	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°	4282	4282	4282
5°	4253	4202	4199
10°	4218	4134	4143
15°	4170	4069	4090
20°	4106	3990	4039
25°	4022	3895	3973
30°	3923	3796	3899
35°	3829	3698	3828
40°	3736	3580	3734
45°	3651	3463	3644
50°	3560	3341	3547
55°	3481	3209	3457
60°	3372	3081	3390
65°	3306	2904	3350
70°	3226	2733	3355
75°	3114	2500	3376
80°	3018	2216	3240
85°	3051	1873	2600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	2.7
10°-20°	436.0	7.8
20°-30°	666.2	12.0
30°-40°	811.0	14.6
40°-50°	857.1	15.4
50°-60°	809.1	14.5
60°-70°	680.7	12.2
70°-80°	490.8	8.8
80°-90°	258.8	4.6
90°-100°	138.5	2.5
100°-110°	105.2	1.9
110°-120°	76.3	1.4
120°-130°	47.9	0.9
130°-140°	25.9	0.5
140°-150°	11.3	0.2
150°-160°	3.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1253.1	22.5
0°-40°	2064.1	37.1
0°-60°	3730.3	67.0
0°-90°	5160.6	92.7
90°-120°	320.1	5.7
90°-150°	405.2	7.3
90°-180°	408.0	7.3
0°-180°	5568.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1583	1583	1586	1586	1589	150
15°	1522	1528	1547	1558	1566	429
25°	1394	1411	1447	1480	1494	642
35°	1216	1244	1300	1350	1369	762
45°	1019	1050	1111	1172	1197	787
55°	808	844	900	966	1000	722
65°	589	622	672	755	808	582
75°	369	400	439	525	628	392
85°	169	192	214	267	325	159
90°	108	128	147	175	200	62
95°	94	108	125	142	153	75
105°	80	89	100	111	117	84
115°	64	69	78	83	89	64
125°	47	47	56	56	58	42
135°	33	31	33	33	36	25
145°	19	17	17	17	19	12
155°	8	8	3	6	8	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°	1591.4	1591.4	1591.4	1591.4	1591.4
2.5°	1591.4	1588.6	1588.6	1588.6	1591.4
5°	1583.1	1583.1	1585.8	1585.8	1588.6
7.5°	1574.7	1574.7	1580.3	1583.1	1585.8
10°	1560.8	1563.6	1572.0	1577.5	1583.1
12.5°	1544.2	1547.0	1560.8	1572.0	1577.5
15°	1522.0	1527.5	1547.0	1558.1	1566.4
17.5°	1497.0	1505.3	1527.5	1544.2	1552.5
20°	1466.4	1477.5	1505.3	1527.5	1538.6
22.5°	1433.1	1444.2	1477.5	1505.3	1519.2
25°	1394.2	1410.9	1447.0	1480.3	1494.2
27.5°	1352.5	1372.0	1413.6	1452.5	1466.4
30°	1308.1	1330.3	1377.5	1419.2	1435.9
32.5°	1266.4	1288.7	1341.4	1385.9	1402.5
35°	1216.5	1244.2	1299.8	1349.8	1369.2
37.5°	1169.2	1197.0	1255.3	1308.1	1327.6
40°	1119.3	1147.0	1208.1	1266.4	1285.9
42.5°	1072.0	1099.8	1160.9	1222.0	1244.2
45°	1019.3	1049.8	1110.9	1172.0	1197.0
47.5°	966.5	997.1	1060.9	1124.8	1149.8
50°	913.7	947.1	1008.2	1072.0	1099.8
52.5°	861.0	894.3	955.4	1022.0	1049.8
55°	808.2	844.3	899.8	966.5	999.8
57.5°	755.4	791.5	847.1	916.5	949.8
60°	694.3	736.0	791.5	863.7	902.6
62.5°	641.6	677.7	733.2	808.2	855.4
65°	588.8	622.1	672.1	755.4	808.2
67.5°	533.2	569.3	616.6	694.3	766.5
70°	480.5	511.0	558.2	638.8	719.3
72.5°	424.9	455.5	499.9	583.2	672.1
75°	369.4	399.9	438.8	524.9	627.7
77.5°	319.4	344.4	380.5	463.8	574.9
80°	263.8	288.8	322.2	397.2	505.5
82.5°	213.9	236.1	263.8	330.5	416.6
85°	169.4	191.6	213.9	266.6	324.9
87.5°	136.1	152.8	175.0	213.9	252.7
90°	108.3	127.8	147.2	175.0	200.0
92.5°	100.0	116.6	133.3	155.5	172.2
95°	94.4	108.3	125.0	141.6	152.8
97.5°	88.9	102.8	116.6	133.3	141.6
100°	86.1	97.2	111.1	125.0	130.5
102.5°	83.3	91.7	105.5	116.6	125.0
105°	80.5	88.9	100.0	111.1	116.6
107.5°	75.0	83.3	94.4	105.5	111.1
110°	72.2	77.8	88.9	97.2	105.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.4	75.0	83.3	91.7	97.2
115°	63.9	69.4	77.8	83.3	88.9
117.5°	61.1	63.9	72.2	75.0	80.5
120°	55.5	58.3	66.7	69.4	72.2
122.5°	50.0	52.8	61.1	61.1	66.7
125°	47.2	47.2	55.5	55.5	58.3
127.5°	44.4	44.4	50.0	50.0	52.8
130°	38.9	38.9	44.4	44.4	44.4
132.5°	36.1	33.3	38.9	38.9	41.7
135°	33.3	30.6	33.3	33.3	36.1
137.5°	27.8	27.8	30.6	27.8	30.6
140°	25.0	22.2	25.0	25.0	27.8
142.5°	22.2	19.4	22.2	19.4	22.2
145°	19.4	16.7	16.7	16.7	19.4
147.5°	16.7	13.9	13.9	13.9	16.7
150°	13.9	11.1	11.1	11.1	13.9
152.5°	11.1	8.3	5.6	8.3	11.1
155°	8.3	8.3	2.8	5.6	8.3
157.5°	5.6	5.6	0.0	2.8	5.6
160°	2.8	2.8	0.0	2.8	2.8
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)