

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: P384691

Luminaire Tested: **24ID-50-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384691
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: 24ID-50-L835-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

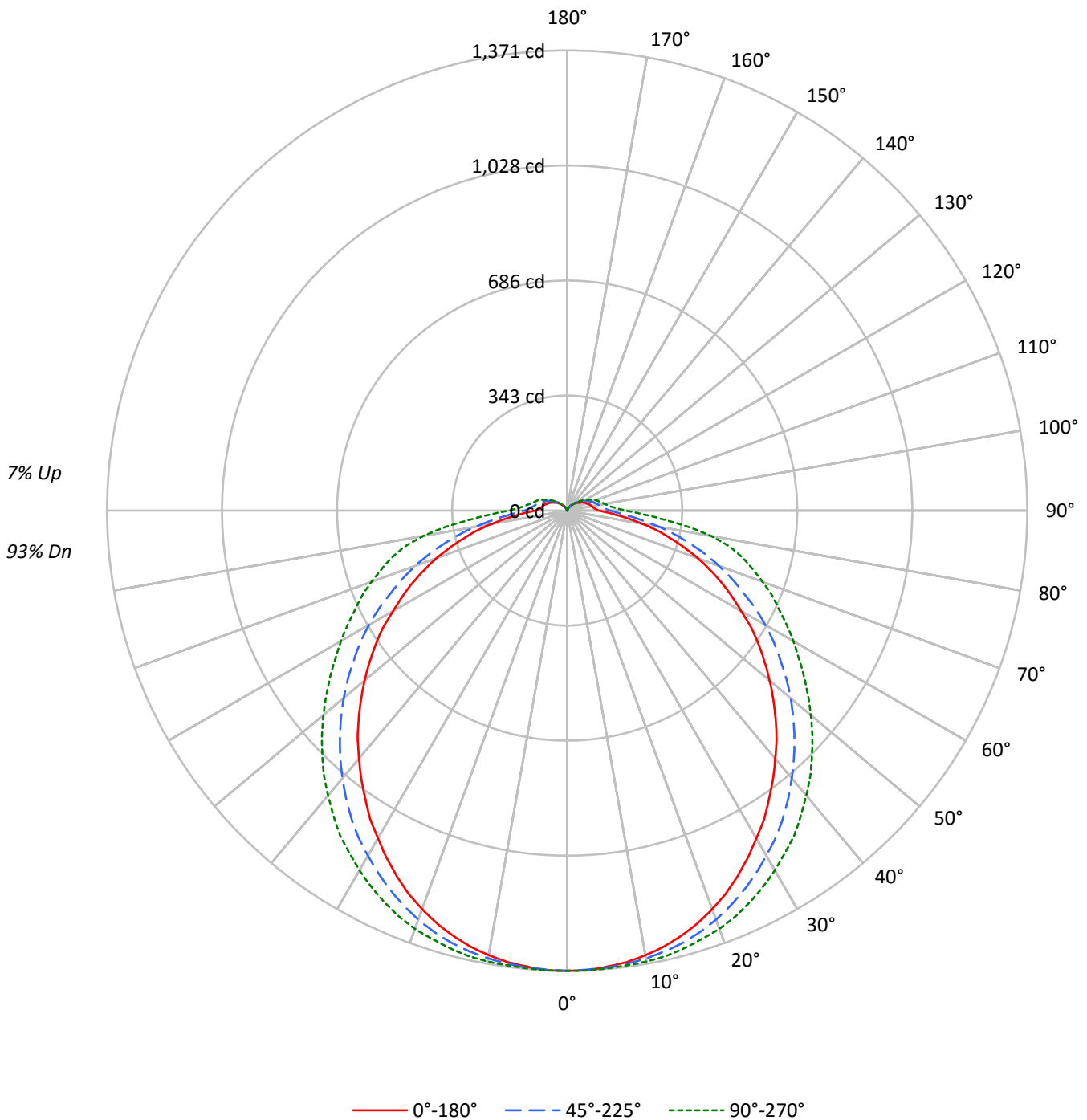
Lumens per Lamp: N/A
Luminaire Lumens: 4799.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 44.1
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°	1845	1845	1845
5°	1833	1825	1829
10°	1818	1809	1824
15°	1797	1793	1819
20°	1769	1772	1816
25°	1733	1743	1806
30°	1690	1713	1793
35°	1650	1684	1782
40°	1610	1646	1762
45°	1573	1608	1745
50°	1534	1570	1727
55°	1500	1530	1715
60°	1453	1493	1721
65°	1424	1436	1749
70°	1390	1387	1815
75°	1342	1315	1917
80°	1301	1228	1975
85°	1315	1131	1780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	2.7
10°-20°	375.8	7.8
20°-30°	574.1	12.0
30°-40°	698.9	14.6
40°-50°	738.7	15.4
50°-60°	697.3	14.5
60°-70°	586.6	12.2
70°-80°	422.9	8.8
80°-90°	223.0	4.6
90°-100°	119.4	2.5
100°-110°	90.7	1.9
110°-120°	65.8	1.4
120°-130°	41.3	0.9
130°-140°	22.3	0.5
140°-150°	9.8	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1079.9	22.5
0°-40°	1778.8	37.1
0°-60°	3214.7	67.0
0°-90°	4447.3	92.7
90°-120°	275.8	5.7
90°-150°	349.2	7.3
90°-180°	352.0	7.3
0°-180°	4799.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1364	1364	1367	1367	1369	130
15°	1312	1316	1333	1343	1350	370
25°	1202	1216	1247	1276	1288	553
35°	1048	1072	1120	1163	1180	657
45°	878	905	957	1010	1032	678
55°	696	728	776	833	862	622
65°	507	536	579	651	696	502
75°	318	345	378	452	541	338
85°	146	165	184	230	280	137
90°	93	110	127	151	172	53
95°	81	93	108	122	132	65
105°	69	77	86	96	100	73
115°	55	60	67	72	77	55
125°	41	41	48	48	50	37
135°	29	26	29	29	31	22
145°	17	14	14	14	17	11
155°	7	7	2	5	7	3
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°	1371.4	1371.4	1371.4	1371.4	1371.4
2.5°	1371.4	1369.0	1369.0	1369.0	1371.4
5°	1364.3	1364.3	1366.7	1366.7	1369.0
7.5°	1357.1	1357.1	1361.9	1364.3	1366.7
10°	1345.1	1347.5	1354.7	1359.5	1364.3
12.5°	1330.8	1333.1	1345.1	1354.7	1359.5
15°	1311.6	1316.4	1333.1	1342.7	1349.9
17.5°	1290.1	1297.2	1316.4	1330.8	1337.9
20°	1263.7	1273.3	1297.2	1316.4	1326.0
22.5°	1235.0	1244.6	1273.3	1297.2	1309.2
25°	1201.5	1215.9	1247.0	1275.7	1287.7
27.5°	1165.6	1182.4	1218.3	1251.8	1263.7
30°	1127.3	1146.5	1187.1	1223.0	1237.4
32.5°	1091.4	1110.6	1156.0	1194.3	1208.7
35°	1048.3	1072.3	1120.1	1163.2	1180.0
37.5°	1007.6	1031.6	1081.8	1127.3	1144.1
40°	964.6	988.5	1041.1	1091.4	1108.2
42.5°	923.9	947.8	1000.5	1053.1	1072.3
45°	878.4	904.7	957.4	1010.0	1031.6
47.5°	832.9	859.2	914.3	969.3	990.9
50°	787.4	816.2	868.8	923.9	947.8
52.5°	742.0	770.7	823.3	880.8	904.7
55°	696.5	727.6	775.5	832.9	861.6
57.5°	651.0	682.1	730.0	789.8	818.6
60°	598.4	634.3	682.1	744.4	777.9
62.5°	552.9	584.0	631.9	696.5	737.2
65°	507.4	536.1	579.2	651.0	696.5
67.5°	459.5	490.7	531.3	598.4	660.6
70°	414.1	440.4	481.1	550.5	619.9
72.5°	366.2	392.5	430.8	502.6	579.2
75°	318.3	344.7	378.2	452.4	540.9
77.5°	275.2	296.8	327.9	399.7	495.4
80°	227.4	248.9	277.6	342.3	435.6
82.5°	184.3	203.4	227.4	284.8	359.0
85°	146.0	165.1	184.3	229.8	280.0
87.5°	117.3	131.6	150.8	184.3	217.8
90°	93.3	110.1	126.9	150.8	172.3
92.5°	86.2	100.5	114.9	134.0	148.4
95°	81.4	93.3	107.7	122.1	131.6
97.5°	76.6	88.6	100.5	114.9	122.1
100°	74.2	83.8	95.7	107.7	112.5
102.5°	71.8	79.0	91.0	100.5	107.7
105°	69.4	76.6	86.2	95.7	100.5
107.5°	64.6	71.8	81.4	91.0	95.7
110°	62.2	67.0	76.6	83.8	91.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.8	64.6	71.8	79.0	83.8
115°	55.0	59.8	67.0	71.8	76.6
117.5°	52.7	55.0	62.2	64.6	69.4
120°	47.9	50.3	57.4	59.8	62.2
122.5°	43.1	45.5	52.7	52.7	57.4
125°	40.7	40.7	47.9	47.9	50.3
127.5°	38.3	38.3	43.1	43.1	45.5
130°	33.5	33.5	38.3	38.3	38.3
132.5°	31.1	28.7	33.5	33.5	35.9
135°	28.7	26.3	28.7	28.7	31.1
137.5°	23.9	23.9	26.3	23.9	26.3
140°	21.5	19.1	21.5	21.5	23.9
142.5°	19.1	16.8	19.1	16.8	19.1
145°	16.8	14.4	14.4	14.4	16.8
147.5°	14.4	12.0	12.0	12.0	14.4
150°	12.0	9.6	9.6	9.6	12.0
152.5°	9.6	7.2	4.8	7.2	9.6
155°	7.2	7.2	2.4	4.8	7.2
157.5°	4.8	4.8	0.0	2.4	4.8
160°	2.4	2.4	0.0	2.4	2.4
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)