

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: P384135

Luminaire Tested: **22ID-50-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-50-L835-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

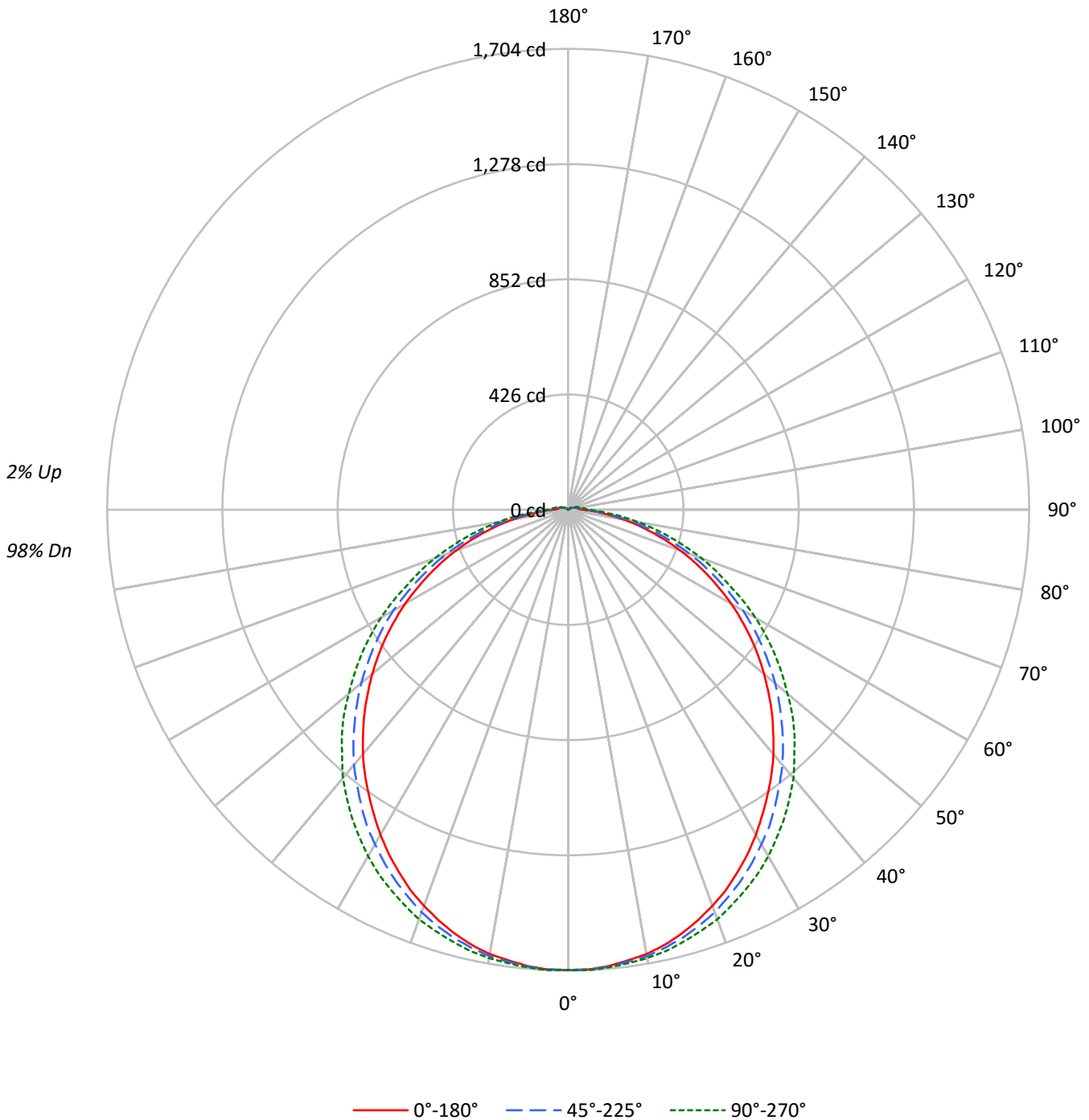
Lumens per Lamp: N/A
Luminaire Lumens: 5039.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 41.1
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4579	4579	4579
5°	4559	4559	4573
10°	4526	4533	4567
15°	4470	4492	4555
20°	4397	4441	4548
25°	4309	4371	4517
30°	4210	4292	4489
35°	4102	4208	4445
40°	4007	4123	4397
45°	3893	4013	4322
50°	3771	3908	4219
55°	3643	3781	4130
60°	3501	3644	4014
65°	3315	3438	3823
70°	3103	3236	3698
75°	2851	2962	3495
80°	2562	2642	3267
85°	2299	2358	3100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	3.2
10°-20°	462.0	9.2
20°-30°	697.5	13.8
30°-40°	835.7	16.6
40°-50°	864.0	17.1
50°-60°	782.5	15.5
60°-70°	605.5	12.0
70°-80°	371.9	7.4
80°-90°	147.8	2.9
90°-100°	53.9	1.1
100°-110°	33.1	0.7
110°-120°	17.0	0.3
120°-130°	7.3	0.1
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1320.6	26.2
0°-40°	2156.4	42.8
0°-60°	3802.9	75.5
0°-90°	4928.1	97.8
90°-120°	104.1	2.1
90°-150°	111.8	2.2
90°-180°	112.0	2.2
0°-180°	5039.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1694	1694	1697	1697	1699	161
15°	1622	1625	1638	1648	1653	457
25°	1479	1490	1513	1538	1551	682
35°	1285	1301	1334	1370	1392	805
45°	1066	1078	1117	1163	1183	821
55°	823	841	874	912	933	735
65°	567	580	608	639	654	561
75°	317	332	348	370	388	338
85°	110	118	128	140	148	109
90°	51	59	64	72	77	30
95°	38	43	48	54	59	31
105°	28	28	31	33	36	30
115°	18	15	15	18	20	18
125°	10	8	5	8	10	10
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1701.7	1701.7	1701.7	1701.7	1701.7
2.5°	1701.7	1699.1	1701.7	1701.7	1704.3
5°	1694.0	1694.0	1696.6	1696.6	1699.1
7.5°	1681.3	1681.3	1686.4	1688.9	1691.5
10°	1668.5	1668.5	1676.2	1678.7	1683.8
12.5°	1648.0	1650.6	1658.3	1665.9	1671.0
15°	1622.5	1625.0	1637.8	1648.0	1653.2
17.5°	1591.8	1596.9	1612.3	1627.6	1632.7
20°	1558.6	1566.3	1584.2	1602.1	1612.3
22.5°	1522.8	1528.0	1548.4	1571.4	1581.6
25°	1479.4	1489.6	1512.6	1538.2	1551.0
27.5°	1436.0	1446.2	1471.7	1502.4	1517.7
30°	1387.4	1397.6	1428.3	1461.5	1479.4
32.5°	1336.3	1349.1	1384.9	1418.1	1436.0
35°	1285.2	1300.6	1333.8	1369.5	1392.5
37.5°	1234.1	1246.9	1282.7	1321.0	1344.0
40°	1180.5	1193.2	1231.6	1269.9	1295.4
42.5°	1121.7	1137.0	1175.3	1216.2	1236.7
45°	1065.5	1078.3	1116.6	1162.6	1183.0
47.5°	1004.2	1022.0	1057.8	1101.3	1124.2
50°	945.4	960.7	999.0	1039.9	1057.8
52.5°	884.1	899.4	935.2	976.1	996.5
55°	822.7	840.6	873.8	912.2	932.6
57.5°	758.9	776.8	810.0	843.2	866.2
60°	697.5	715.4	746.1	779.3	799.7
62.5°	628.6	643.9	677.1	712.9	728.2
65°	567.2	580.0	608.1	638.8	654.1
67.5°	503.4	518.7	544.2	572.3	590.2
70°	439.5	457.4	477.8	503.4	523.8
72.5°	378.2	393.5	411.4	436.9	454.8
75°	316.8	332.2	347.5	370.5	388.4
77.5°	263.2	270.8	286.2	306.6	324.5
80°	204.4	214.6	227.4	247.8	260.6
82.5°	153.3	163.5	173.7	189.1	201.9
85°	109.9	117.5	127.8	140.5	148.2
87.5°	74.1	81.8	89.4	99.6	107.3
90°	51.1	58.8	63.9	71.5	76.7
92.5°	43.4	48.5	53.7	58.8	63.9
95°	38.3	43.4	48.5	53.7	58.8
97.5°	35.8	38.3	43.4	48.5	51.1
100°	33.2	35.8	38.3	43.4	46.0
102.5°	30.7	30.7	35.8	38.3	40.9
105°	28.1	28.1	30.7	33.2	35.8
107.5°	25.6	25.6	28.1	28.1	33.2
110°	23.0	20.4	23.0	23.0	28.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.4	17.9	20.4	20.4	23.0
115°	17.9	15.3	15.3	17.9	20.4
117.5°	15.3	12.8	12.8	12.8	17.9
120°	15.3	12.8	10.2	10.2	15.3
122.5°	12.8	10.2	7.7	10.2	12.8
125°	10.2	7.7	5.1	7.7	10.2
127.5°	7.7	7.7	2.6	5.1	7.7
130°	7.7	5.1	2.6	5.1	5.1
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)