

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: P384308

Luminaire Tested: **22ID-55-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384308
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: 22ID-55-L840-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

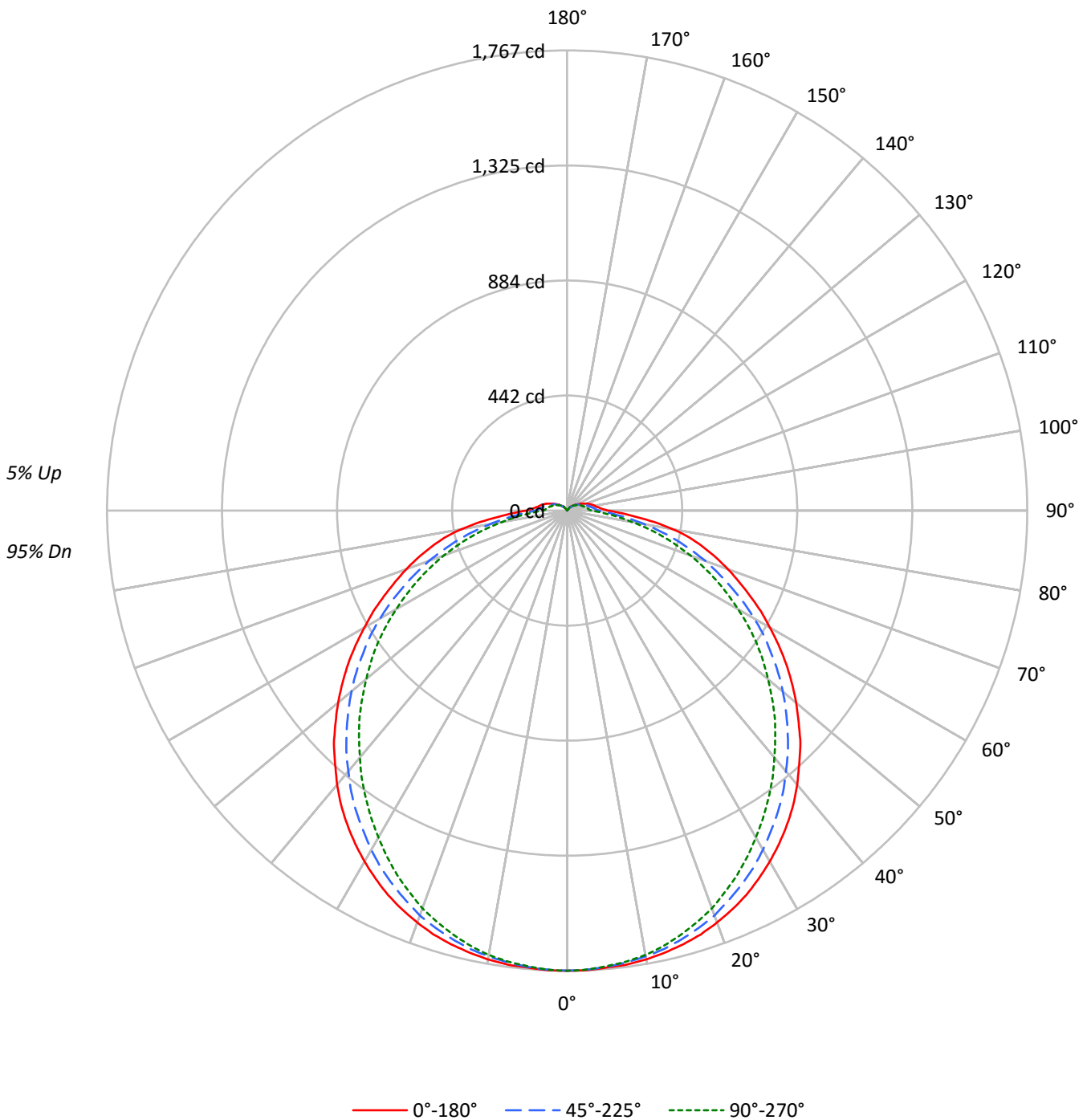
Lumens per Lamp: N/A
Luminaire Lumens: 5731.5 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 46.3
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°	4755	4755	4755
5°	4723	4702	4708
10°	4712	4653	4665
15°	4697	4601	4595
20°	4679	4543	4518
25°	4654	4461	4414
30°	4613	4375	4296
35°	4569	4283	4184
40°	4511	4179	4064
45°	4450	4076	3963
50°	4373	3971	3833
55°	4305	3844	3723
60°	4230	3710	3564
65°	4187	3528	3406
70°	4203	3352	3222
75°	4289	3112	2982
80°	4352	2794	2678
85°	4116	2511	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.9
10°-20°	480.9	8.4
20°-30°	730.5	12.7
30°-40°	882.3	15.4
40°-50°	923.5	16.1
50°-60°	856.9	15.0
60°-70°	694.1	12.1
70°-80°	468.4	8.2
80°-90°	226.3	3.9
90°-100°	113.8	2.0
100°-110°	82.8	1.4
110°-120°	55.3	1.0
120°-130°	32.1	0.6
130°-140°	16.2	0.3
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1378.6	24.1
0°-40°	2261.0	39.4
0°-60°	4041.4	70.5
0°-90°	5430.1	94.7
90°-120°	251.9	4.4
90°-150°	301.4	5.3
90°-180°	301.0	5.3
0°-180°	5731.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1761	1758	1758	1756	1756	168
15°	1724	1715	1704	1692	1686	487
25°	1628	1614	1585	1556	1544	750
35°	1472	1452	1411	1368	1348	921
45°	1267	1244	1197	1148	1128	976
55°	1027	1004	957	911	888	918
65°	775	746	694	656	630	769
75°	541	486	431	399	376	570
85°	260	226	191	174	156	246
90°	156	142	122	110	93	89
95°	124	116	104	93	81	98
105°	93	87	78	69	64	99
115°	64	58	58	49	49	63
125°	40	35	38	32	35	36
135°	23	20	20	20	23	18
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°	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1767.1	1764.2	1764.2	1764.2	1764.2
5°	1761.3	1758.5	1758.5	1755.6	1755.6
7.5°	1758.5	1752.7	1749.8	1746.9	1746.9
10°	1749.8	1744.0	1738.2	1732.4	1732.4
12.5°	1738.2	1732.4	1723.7	1712.2	1712.2
15°	1723.7	1715.1	1703.5	1691.9	1686.1
17.5°	1706.4	1697.7	1680.4	1663.0	1657.2
20°	1683.3	1671.7	1654.3	1631.2	1625.4
22.5°	1657.2	1645.7	1619.6	1596.5	1584.9
25°	1628.3	1613.8	1584.9	1556.0	1544.4
27.5°	1593.6	1579.1	1547.3	1512.6	1498.2
30°	1556.0	1538.6	1503.9	1466.3	1449.0
32.5°	1515.5	1495.3	1457.7	1417.2	1399.8
35°	1472.1	1451.9	1411.4	1368.0	1347.8
37.5°	1425.9	1405.6	1362.2	1315.9	1295.7
40°	1373.8	1353.5	1307.3	1261.0	1237.9
42.5°	1318.8	1301.5	1255.2	1206.0	1182.9
45°	1266.8	1243.6	1197.4	1148.2	1128.0
47.5°	1206.0	1188.7	1139.5	1090.4	1067.2
50°	1148.2	1128.0	1081.7	1032.5	1006.5
52.5°	1087.5	1070.1	1020.9	971.8	948.6
55°	1026.7	1003.6	957.3	911.0	887.9
57.5°	963.1	942.9	896.6	853.2	824.3
60°	899.5	879.2	830.1	789.6	757.8
62.5°	838.7	815.6	763.5	720.2	694.1
65°	775.1	746.2	694.1	656.5	630.5
67.5°	714.4	679.7	627.6	592.9	566.9
70°	656.5	616.0	564.0	529.3	503.2
72.5°	598.7	549.5	494.6	462.8	439.6
75°	540.8	485.9	430.9	399.1	376.0
77.5°	483.0	419.4	364.4	338.4	315.2
80°	413.6	352.8	300.8	277.7	254.5
82.5°	335.5	286.3	242.9	219.8	202.5
85°	260.3	225.6	190.9	173.5	156.2
87.5°	202.5	176.4	150.4	135.9	121.5
90°	156.2	141.7	121.5	109.9	92.6
92.5°	135.9	124.4	109.9	98.3	83.9
95°	124.4	115.7	104.1	92.6	81.0
97.5°	112.8	107.0	95.4	86.8	75.2
100°	107.0	98.3	89.7	81.0	72.3
102.5°	101.2	92.6	83.9	75.2	69.4
105°	92.6	86.8	78.1	69.4	63.6
107.5°	86.8	78.1	72.3	63.6	60.7
110°	78.1	72.3	66.5	60.7	57.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.4	66.5	60.7	55.0	52.1
115°	63.6	57.8	57.8	49.2	49.2
117.5°	57.8	52.1	52.1	46.3	46.3
120°	49.2	46.3	46.3	40.5	40.5
122.5°	43.4	40.5	40.5	37.6	37.6
125°	40.5	34.7	37.6	31.8	34.7
127.5°	34.7	31.8	31.8	28.9	31.8
130°	28.9	26.0	26.0	26.0	28.9
132.5°	26.0	23.1	23.1	23.1	26.0
135°	23.1	20.2	20.2	20.2	23.1
137.5°	20.2	17.4	14.5	17.4	20.2
140°	17.4	14.5	11.6	14.5	17.4
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)