

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: P384718

Luminaire Tested: **24ID-85-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384718
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-85-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

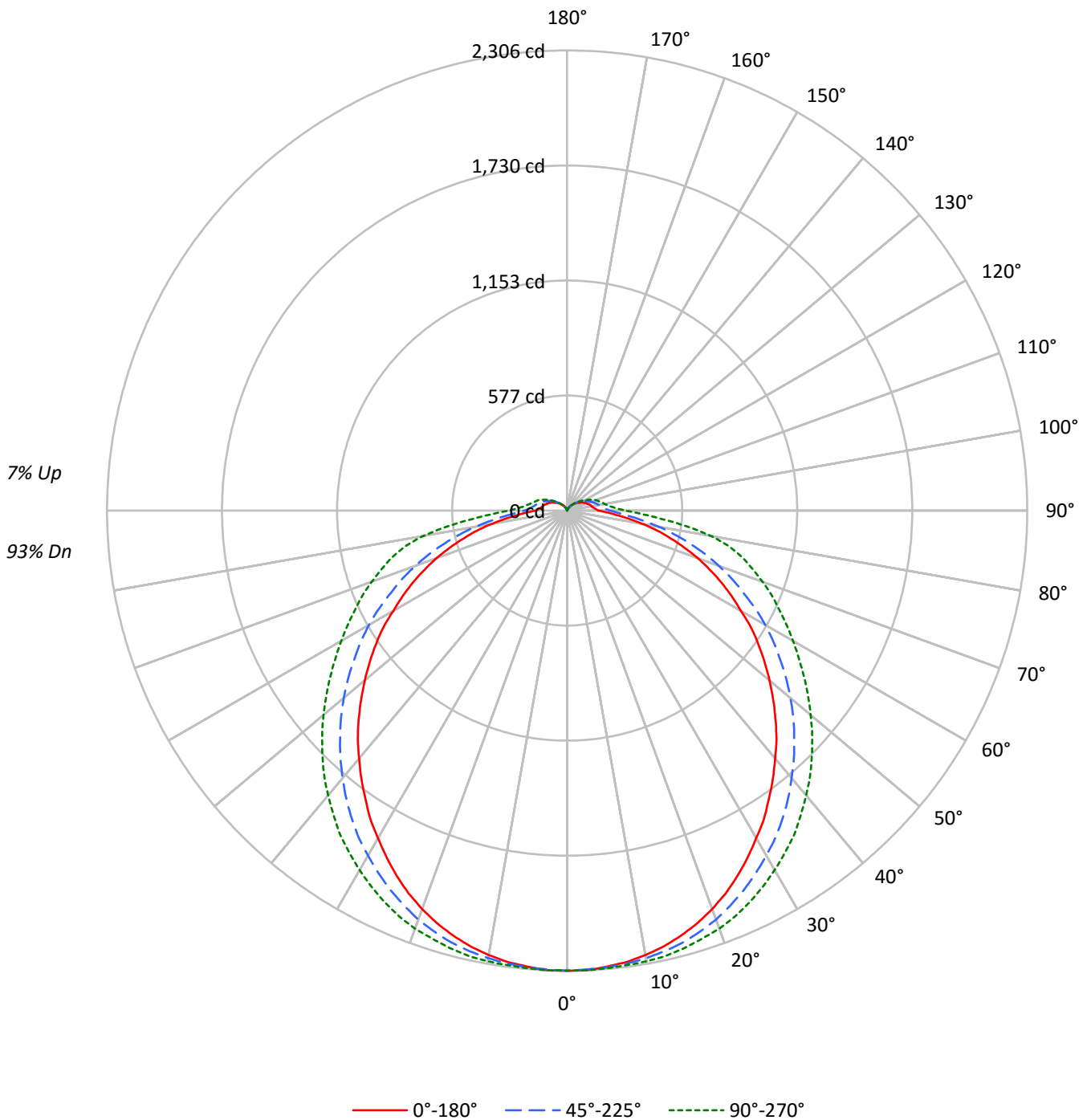
Lumens per Lamp: N/A
Luminaire Lumens: 8068.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 82
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°	3102	3102	3102
5°	3081	3067	3075
10°	3056	3040	3066
15°	3021	3015	3059
20°	2974	2979	3053
25°	2914	2931	3037
30°	2842	2880	3014
35°	2773	2830	2996
40°	2706	2766	2962
45°	2645	2704	2933
50°	2579	2640	2903
55°	2522	2571	2883
60°	2442	2510	2893
65°	2395	2414	2940
70°	2337	2332	3052
75°	2256	2211	3224
80°	2187	2064	3320
85°	2210	1901	2993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	2.7
10°-20°	631.7	7.8
20°-30°	965.2	12.0
30°-40°	1174.9	14.6
40°-50°	1241.8	15.4
50°-60°	1172.2	14.5
60°-70°	986.2	12.2
70°-80°	711.0	8.8
80°-90°	375.0	4.6
90°-100°	200.7	2.5
100°-110°	152.4	1.9
110°-120°	110.6	1.4
120°-130°	69.4	0.9
130°-140°	37.5	0.5
140°-150°	16.4	0.2
150°-160°	4.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1815.5	22.5
0°-40°	2990.4	37.1
0°-60°	5404.4	67.0
0°-90°	7476.6	92.7
90°-120°	463.7	5.7
90°-150°	587.0	7.3
90°-180°	592.0	7.3
0°-180°	8068.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2306	2306	2306	2306	2306	
5°	2294	2294	2298	2298	2302	218
15°	2205	2213	2241	2257	2269	622
25°	2020	2044	2096	2145	2165	930
35°	1762	1803	1883	1956	1984	1104
45°	1477	1521	1610	1698	1734	1140
55°	1171	1223	1304	1400	1448	1046
65°	853	901	974	1094	1171	843
75°	535	579	636	760	909	568
85°	245	278	310	386	471	230
90°	157	185	213	254	290	90
95°	137	157	181	205	221	109
105°	117	129	145	161	169	122
115°	92	101	113	121	129	93
125°	68	68	80	80	84	62
135°	48	44	48	48	52	36
145°	28	24	24	24	28	18
155°	12	12	4	8	12	6
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°	2305.6	2305.6	2305.6	2305.6	2305.6
2.5°	2305.6	2301.6	2301.6	2301.6	2305.6
5°	2293.5	2293.5	2297.5	2297.5	2301.6
7.5°	2281.4	2281.4	2289.5	2293.5	2297.5
10°	2261.3	2265.3	2277.4	2285.5	2293.5
12.5°	2237.2	2241.2	2261.3	2277.4	2285.5
15°	2205.0	2213.0	2241.2	2257.3	2269.4
17.5°	2168.8	2180.8	2213.0	2237.2	2249.2
20°	2124.5	2140.6	2180.8	2213.0	2229.1
22.5°	2076.2	2092.3	2140.6	2180.8	2201.0
25°	2019.9	2044.0	2096.3	2144.6	2164.7
27.5°	1959.5	1987.7	2048.1	2104.4	2124.5
30°	1895.2	1927.3	1995.8	2056.1	2080.3
32.5°	1834.8	1867.0	1943.4	2007.8	2032.0
35°	1762.4	1802.6	1883.1	1955.5	1983.7
37.5°	1694.0	1734.2	1818.7	1895.2	1923.3
40°	1621.5	1661.8	1750.3	1834.8	1863.0
42.5°	1553.1	1593.4	1681.9	1770.4	1802.6
45°	1476.7	1521.0	1609.5	1698.0	1734.2
47.5°	1400.2	1444.5	1537.1	1629.6	1665.8
50°	1323.8	1372.1	1460.6	1553.1	1593.4
52.5°	1247.3	1295.6	1384.2	1480.7	1521.0
55°	1170.9	1223.2	1303.7	1400.2	1448.5
57.5°	1094.4	1146.8	1227.2	1327.8	1376.1
60°	1005.9	1066.3	1146.8	1251.4	1307.7
62.5°	929.5	981.8	1062.3	1170.9	1239.3
65°	853.0	901.3	973.7	1094.4	1170.9
67.5°	772.5	824.9	893.3	1005.9	1110.5
70°	696.1	740.4	808.8	925.4	1042.1
72.5°	615.6	659.9	724.3	845.0	973.7
75°	535.2	579.4	635.7	760.5	909.4
77.5°	462.7	498.9	551.2	672.0	832.9
80°	382.3	418.5	466.7	575.4	732.3
82.5°	309.8	342.0	382.3	478.8	603.6
85°	245.4	277.6	309.8	386.3	470.8
87.5°	197.2	221.3	253.5	309.8	366.2
90°	156.9	185.1	213.3	253.5	289.7
92.5°	144.9	169.0	193.1	225.3	249.5
95°	136.8	156.9	181.1	205.2	221.3
97.5°	128.8	148.9	169.0	193.1	205.2
100°	124.7	140.8	160.9	181.1	189.1
102.5°	120.7	132.8	152.9	169.0	181.1
105°	116.7	128.8	144.9	160.9	169.0
107.5°	108.6	120.7	136.8	152.9	160.9
110°	104.6	112.7	128.8	140.8	152.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.6	108.6	120.7	132.8	140.8
115°	92.5	100.6	112.7	120.7	128.8
117.5°	88.5	92.5	104.6	108.6	116.7
120°	80.5	84.5	96.6	100.6	104.6
122.5°	72.4	76.5	88.5	88.5	96.6
125°	68.4	68.4	80.5	80.5	84.5
127.5°	64.4	64.4	72.4	72.4	76.5
130°	56.3	56.3	64.4	64.4	64.4
132.5°	52.3	48.3	56.3	56.3	60.4
135°	48.3	44.3	48.3	48.3	52.3
137.5°	40.2	40.2	44.3	40.2	44.3
140°	36.2	32.2	36.2	36.2	40.2
142.5°	32.2	28.2	32.2	28.2	32.2
145°	28.2	24.1	24.1	24.1	28.2
147.5°	24.1	20.1	20.1	20.1	24.1
150°	20.1	16.1	16.1	16.1	20.1
152.5°	16.1	12.1	8.0	12.1	16.1
155°	12.1	12.1	4.0	8.0	12.1
157.5°	8.0	8.0	0.0	4.0	8.0
160°	4.0	4.0	0.0	4.0	4.0
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)