

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: P384200

Luminaire Tested: **24ID-65-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384200
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: 24ID-65-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

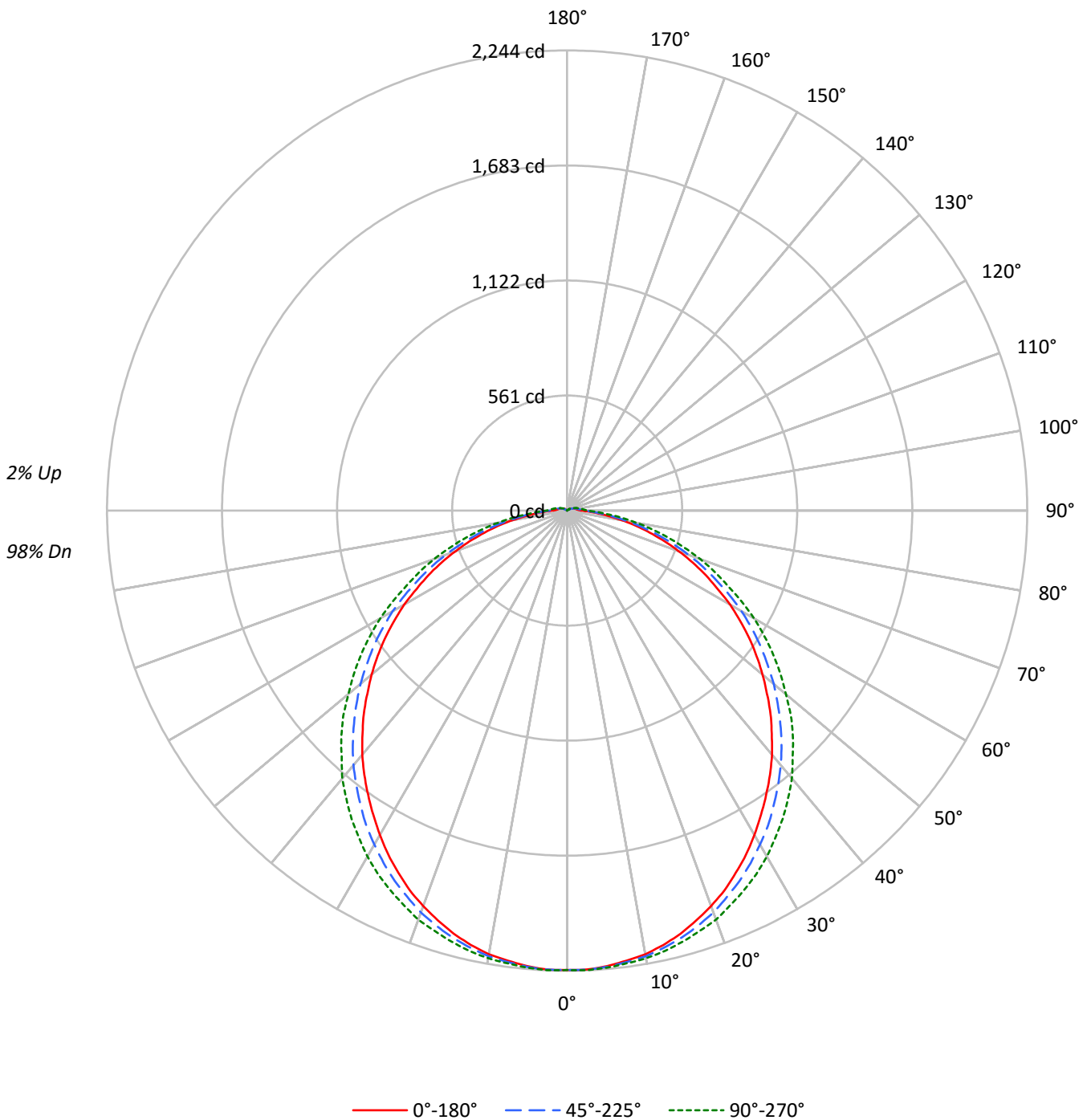
Lumens per Lamp: N/A
Luminaire Lumens: 6635.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 63.6
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°	3014	3014	3014
5°	3007	3005	3011
10°	2990	2992	3007
15°	2959	2968	2998
20°	2916	2939	2994
25°	2864	2897	2974
30°	2804	2849	2955
35°	2739	2798	2926
40°	2683	2746	2894
45°	2615	2679	2845
50°	2542	2615	2777
55°	2468	2539	2719
60°	2385	2455	2643
65°	2276	2328	2517
70°	2153	2207	2434
75°	2012	2042	2300
80°	1865	1855	2150
85°	1804	1725	2041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	3.2
10°-20°	608.2	9.2
20°-30°	918.3	13.8
30°-40°	1100.3	16.6
40°-50°	1137.6	17.1
50°-60°	1030.2	15.5
60°-70°	797.1	12.0
70°-80°	489.7	7.4
80°-90°	194.6	2.9
90°-100°	71.0	1.1
100°-110°	43.6	0.7
110°-120°	22.4	0.3
120°-130°	9.6	0.1
130°-140°	0.6	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°	1738.7	26.2
0°-40°	2839.0	42.8
0°-60°	5006.8	75.5
0°-90°	6488.2	97.8
90°-120°	137.0	2.1
90°-150°	147.3	2.2
90°-180°	147.0	2.2
0°-180°	6635.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2240	2240	2240	2240	2240	
5°	2230	2230	2234	2234	2237	212
15°	2136	2140	2156	2170	2176	602
25°	1948	1961	1992	2025	2042	897
35°	1692	1712	1756	1803	1833	1059
45°	1403	1420	1470	1531	1558	1081
55°	1083	1107	1150	1201	1228	968
65°	747	764	801	841	861	739
75°	417	437	458	488	511	445
85°	145	155	168	185	195	144
90°	67	77	84	94	101	40
95°	50	57	64	71	77	40
105°	37	37	40	44	47	39
115°	24	20	20	24	27	24
125°	14	10	7	10	14	13
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°	2240.4	2240.4	2240.4	2240.4	2240.4
2.5°	2240.4	2237.1	2240.4	2240.4	2243.8
5°	2230.3	2230.3	2233.7	2233.7	2237.1
7.5°	2213.5	2213.5	2220.2	2223.6	2227.0
10°	2196.7	2196.7	2206.8	2210.1	2216.9
12.5°	2169.8	2173.1	2183.2	2193.3	2200.0
15°	2136.1	2139.5	2156.3	2169.8	2176.5
17.5°	2095.8	2102.5	2122.7	2142.9	2149.6
20°	2052.0	2062.1	2085.7	2109.2	2122.7
22.5°	2004.9	2011.7	2038.6	2068.9	2082.3
25°	1947.7	1961.2	1991.5	2025.1	2041.9
27.5°	1890.6	1904.0	1937.7	1978.0	1998.2
30°	1826.6	1840.1	1880.5	1924.2	1947.7
32.5°	1759.4	1776.2	1823.3	1867.0	1890.6
35°	1692.1	1712.3	1756.0	1803.1	1833.4
37.5°	1624.8	1641.6	1688.7	1739.2	1769.5
40°	1554.2	1571.0	1621.4	1671.9	1705.5
42.5°	1476.8	1497.0	1547.4	1601.3	1628.2
45°	1402.8	1419.6	1470.1	1530.6	1557.5
47.5°	1322.0	1345.6	1392.7	1449.9	1480.2
50°	1244.7	1264.9	1315.3	1369.1	1392.7
52.5°	1163.9	1184.1	1231.2	1285.0	1312.0
55°	1083.2	1106.8	1150.5	1200.9	1227.9
57.5°	999.1	1022.7	1066.4	1110.1	1140.4
60°	918.4	941.9	982.3	1026.0	1052.9
62.5°	827.5	847.7	891.5	938.6	958.7
65°	746.8	763.6	800.6	841.0	861.2
67.5°	662.7	682.9	716.5	753.5	777.1
70°	578.6	602.2	629.1	662.7	689.6
72.5°	497.9	518.1	541.6	575.2	598.8
75°	417.1	437.3	457.5	487.8	511.3
77.5°	346.5	356.6	376.8	403.7	427.2
80°	269.1	282.6	299.4	326.3	343.1
82.5°	201.8	215.3	228.8	248.9	265.8
85°	144.7	154.7	168.2	185.0	195.1
87.5°	97.6	107.6	117.7	131.2	141.3
90°	67.3	77.4	84.1	94.2	100.9
92.5°	57.2	63.9	70.6	77.4	84.1
95°	50.5	57.2	63.9	70.6	77.4
97.5°	47.1	50.5	57.2	63.9	67.3
100°	43.7	47.1	50.5	57.2	60.6
102.5°	40.4	40.4	47.1	50.5	53.8
105°	37.0	37.0	40.4	43.7	47.1
107.5°	33.6	33.6	37.0	37.0	43.7
110°	30.3	26.9	30.3	30.3	37.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.9	23.5	26.9	26.9	30.3
115°	23.5	20.2	20.2	23.5	26.9
117.5°	20.2	16.8	16.8	16.8	23.5
120°	20.2	16.8	13.5	13.5	20.2
122.5°	16.8	13.5	10.1	13.5	16.8
125°	13.5	10.1	6.7	10.1	13.5
127.5°	10.1	10.1	3.4	6.7	10.1
130°	10.1	6.7	3.4	6.7	6.7
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)