

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: P385102

Luminaire Tested: **14ID-70-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-70-L830-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

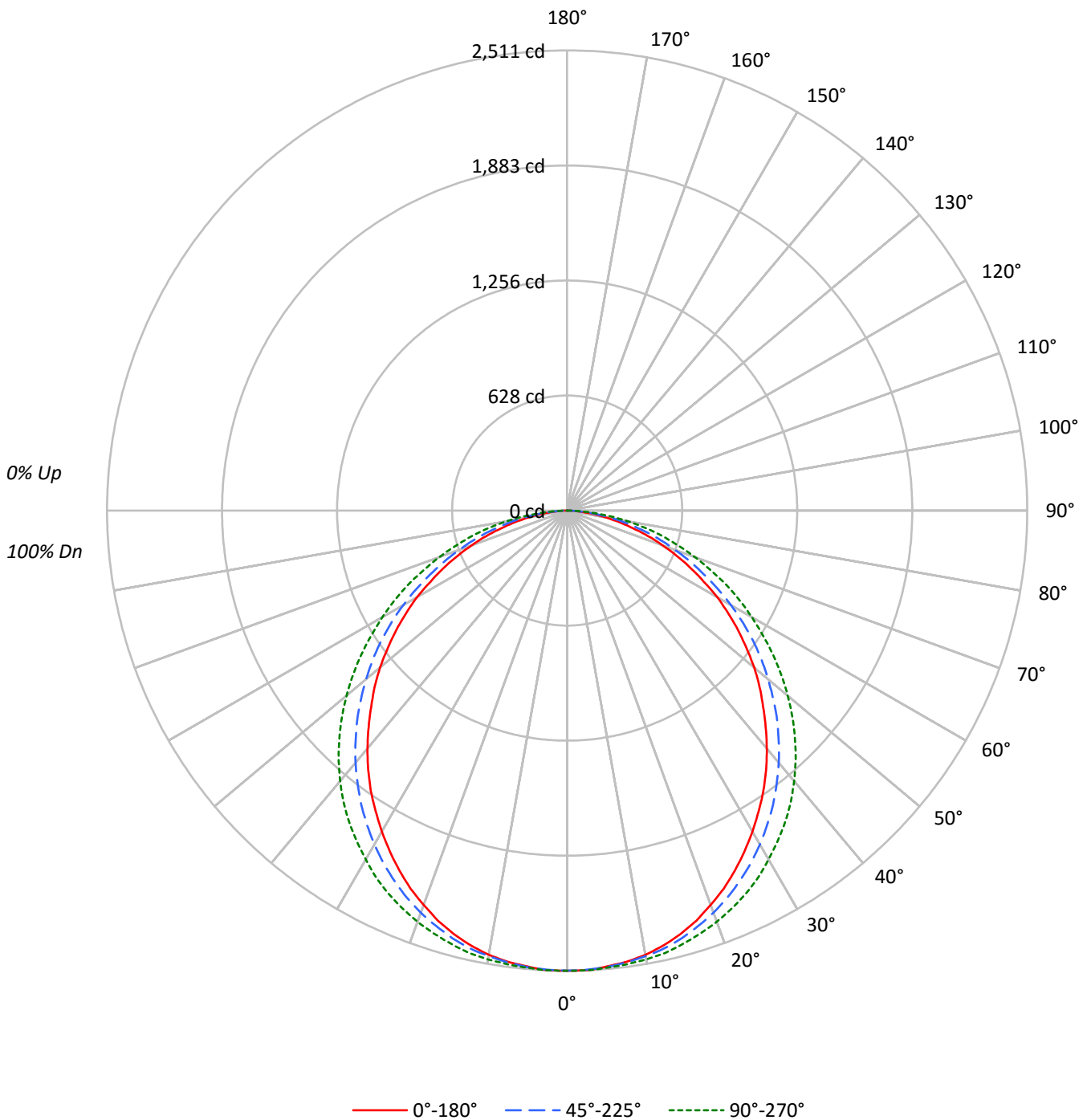
Lumens per Lamp: N/A
Luminaire Lumens: 6971.9 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.6
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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6757	6757	6757
5°	6745	6754	6764
10°	6727	6746	6794
15°	6662	6731	6819
20°	6556	6687	6838
25°	6432	6620	6850
30°	6284	6535	6830
35°	6135	6435	6816
40°	5955	6313	6770
45°	5755	6170	6692
50°	5580	5992	6581
55°	5346	5808	6435
60°	5091	5565	6265
65°	4748	5240	6091
70°	4372	4925	5839
75°	3876	4571	5595
80°	3270	4088	5177
85°	2390	3149	4125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	3.4
10°-20°	681.9	9.8
20°-30°	1028.5	14.8
30°-40°	1227.8	17.6
40°-50°	1254.9	18.0
50°-60°	1112.7	16.0
60°-70°	829.5	11.9
70°-80°	473.9	6.8
80°-90°	125.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	1948.1	27.9
0°-40°	3175.9	45.6
0°-60°	5543.5	79.5
0°-90°	6971.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6971.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2511	2511	2511	2511	2511	
5°	2497	2497	2500	2500	2504	237
15°	2392	2398	2416	2437	2448	674
25°	2166	2184	2230	2279	2307	997
35°	1868	1892	1959	2036	2075	1167
45°	1512	1544	1621	1709	1758	1168
55°	1140	1161	1238	1326	1372	1018
65°	746	763	823	907	957	739
75°	373	390	440	506	538	398
85°	77	81	102	127	134	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2511.0	2511.0	2511.0	2511.0	2511.0
2.5°	2511.0	2507.5	2507.5	2507.5	2511.0
5°	2497.0	2497.0	2500.5	2500.5	2504.0
7.5°	2482.9	2482.9	2486.4	2489.9	2497.0
10°	2461.8	2461.8	2468.8	2479.4	2486.4
12.5°	2430.1	2433.7	2447.7	2461.8	2472.3
15°	2391.5	2398.5	2416.1	2437.2	2447.7
17.5°	2345.7	2352.8	2377.4	2405.5	2419.6
20°	2289.5	2303.5	2335.2	2370.4	2387.9
22.5°	2233.2	2247.3	2286.0	2328.2	2349.3
25°	2166.4	2184.0	2229.7	2278.9	2307.1
27.5°	2096.0	2117.1	2169.9	2226.2	2257.8
30°	2022.2	2046.8	2103.1	2166.4	2198.0
32.5°	1944.8	1969.4	2032.7	2103.1	2138.2
35°	1867.5	1892.1	1958.9	2036.3	2074.9
37.5°	1783.0	1807.7	1878.0	1962.4	2004.6
40°	1695.1	1723.3	1797.1	1881.5	1927.2
42.5°	1603.7	1635.3	1709.2	1800.6	1846.3
45°	1512.2	1543.9	1621.3	1709.2	1758.4
47.5°	1424.3	1448.9	1526.3	1617.8	1667.0
50°	1332.9	1354.0	1431.4	1522.8	1572.0
52.5°	1234.4	1262.6	1336.4	1427.8	1473.6
55°	1139.5	1160.6	1237.9	1325.9	1371.6
57.5°	1041.0	1062.1	1135.9	1223.9	1266.1
60°	946.0	967.1	1034.0	1121.9	1164.1
62.5°	840.5	861.6	928.4	1019.9	1062.1
65°	745.6	763.2	822.9	907.3	956.6
67.5°	650.6	668.2	724.5	805.4	844.0
70°	555.7	569.7	626.0	699.9	742.1
72.5°	464.2	478.3	534.6	601.4	636.6
75°	372.8	390.4	439.6	506.4	538.1
77.5°	288.4	306.0	348.2	408.0	436.1
80°	211.0	225.1	263.8	309.5	334.1
82.5°	140.7	151.2	179.4	218.0	235.6
85°	77.4	80.9	102.0	126.6	133.6
87.5°	31.7	31.7	38.7	42.2	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)