

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: P385382

Luminaire Tested: **24ID-75-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-75-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

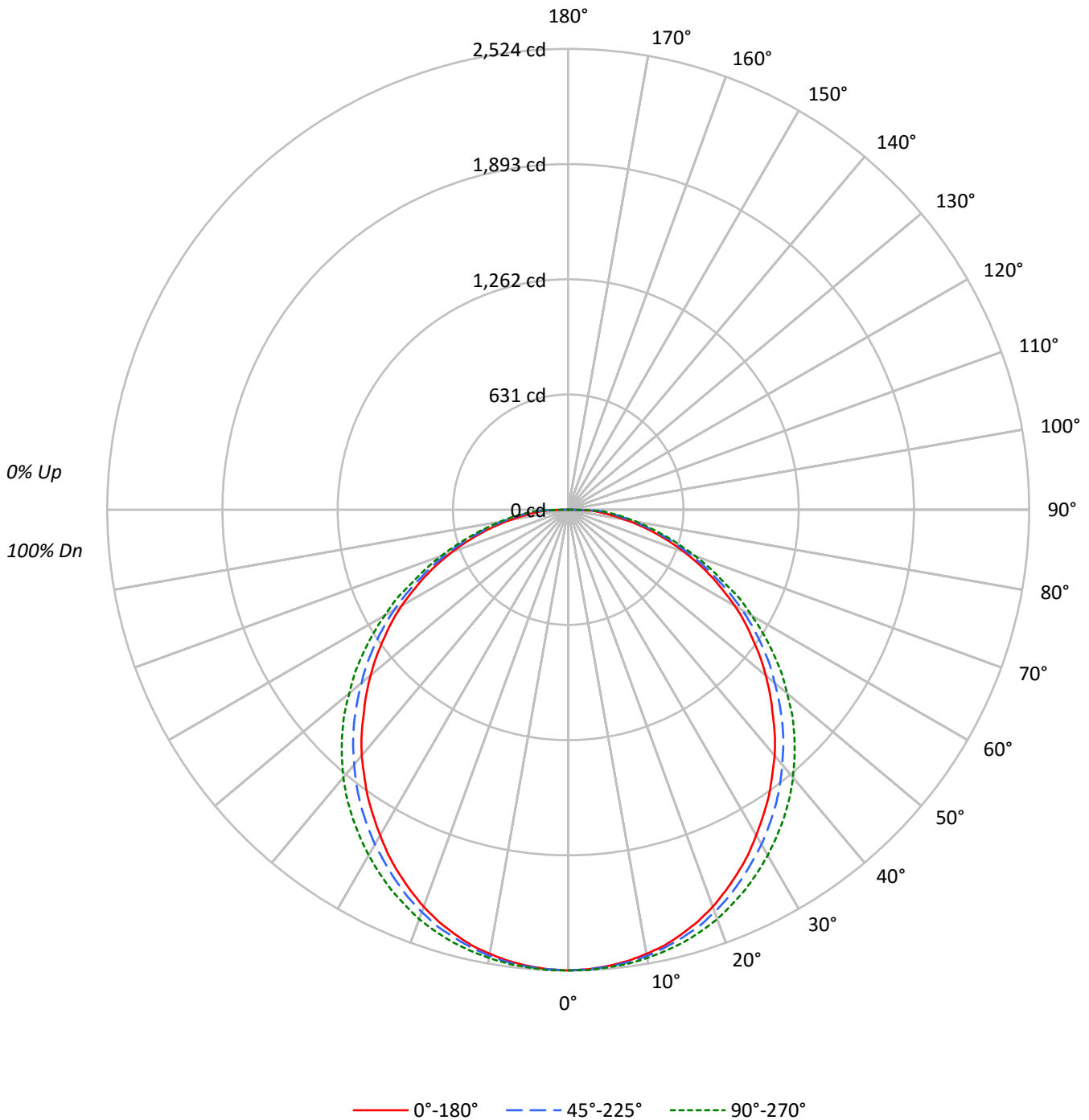
Lumens per Lamp: N/A
Luminaire Lumens: 7319.4 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70.8
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3395	3395	3395
5°	3376	3367	3374
10°	3350	3339	3357
15°	3314	3299	3340
20°	3264	3253	3317
25°	3198	3191	3280
30°	3124	3128	3239
35°	3056	3062	3196
40°	2984	2981	3143
45°	2892	2901	3075
50°	2816	2797	2979
55°	2730	2695	2873
60°	2646	2567	2730
65°	2525	2404	2539
70°	2378	2229	2364
75°	2209	2039	2158
80°	1980	1847	1983
85°	1871	1754	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.3
10°-20°	684.3	9.3
20°-30°	1032.6	14.1
30°-40°	1239.5	16.9
40°-50°	1282.7	17.5
50°-60°	1162.1	15.9
60°-70°	895.3	12.2
70°-80°	554.0	7.6
80°-90°	230.1	3.1
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°	1955.7	26.7
0°-40°	3195.2	43.7
0°-60°	5640.0	77.1
0°-90°	7319.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7319.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2524	2524	2524	2524	2524	
5°	2508	2508	2512	2512	2516	238
15°	2406	2409	2425	2440	2451	678
25°	2196	2204	2238	2276	2295	1012
35°	1915	1930	1979	2033	2059	1197
45°	1583	1606	1660	1720	1751	1224
55°	1233	1252	1294	1351	1370	1104
65°	864	872	898	936	940	854
75°	491	502	522	544	544	520
85°	179	198	228	244	240	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2523.6	2523.6	2523.6	2523.6	2523.6
2.5°	2519.8	2519.8	2519.8	2519.8	2523.6
5°	2508.4	2508.4	2512.2	2512.2	2516.0
7.5°	2493.1	2493.1	2500.7	2500.7	2508.4
10°	2470.3	2474.1	2481.7	2485.5	2493.1
12.5°	2443.6	2443.6	2455.1	2466.5	2474.1
15°	2405.6	2409.4	2424.6	2439.8	2451.3
17.5°	2363.7	2367.5	2390.4	2405.6	2420.8
20°	2314.2	2318.0	2344.7	2367.5	2386.6
22.5°	2257.1	2264.8	2295.2	2325.7	2340.9
25°	2196.2	2203.9	2238.1	2276.2	2295.2
27.5°	2131.5	2143.0	2177.2	2219.1	2241.9
30°	2059.2	2074.4	2116.3	2162.0	2184.8
32.5°	1986.9	2002.1	2047.8	2101.1	2123.9
35°	1914.6	1929.8	1979.3	2032.6	2059.2
37.5°	1834.6	1849.9	1903.2	1960.2	1990.7
40°	1758.5	1773.7	1823.2	1887.9	1914.6
42.5°	1674.8	1690.0	1743.3	1804.2	1834.6
45°	1583.4	1606.3	1659.5	1720.5	1750.9
47.5°	1499.7	1518.7	1568.2	1632.9	1663.4
50°	1412.1	1431.2	1476.8	1541.6	1564.4
52.5°	1324.6	1343.6	1389.3	1450.2	1473.0
55°	1233.2	1252.3	1294.1	1351.2	1370.3
57.5°	1145.7	1160.9	1199.0	1252.3	1267.5
60°	1054.3	1069.6	1100.0	1149.5	1160.9
62.5°	955.4	966.8	1001.1	1046.7	1062.0
65°	864.0	871.6	898.3	936.4	940.2
67.5°	768.9	776.5	803.1	829.8	841.2
70°	673.7	685.1	704.2	730.8	738.4
72.5°	582.4	593.8	612.8	635.7	639.5
75°	491.0	502.4	521.5	544.3	544.3
77.5°	403.5	414.9	437.7	456.8	456.8
80°	315.9	335.0	357.8	376.8	376.8
82.5°	243.6	258.8	289.3	304.5	304.5
85°	178.9	197.9	228.4	243.6	239.8
87.5°	129.4	148.4	175.1	186.5	182.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)