

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: P385198

Luminaire Tested: **24ID-55-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385198
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: 24ID-55-L830-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

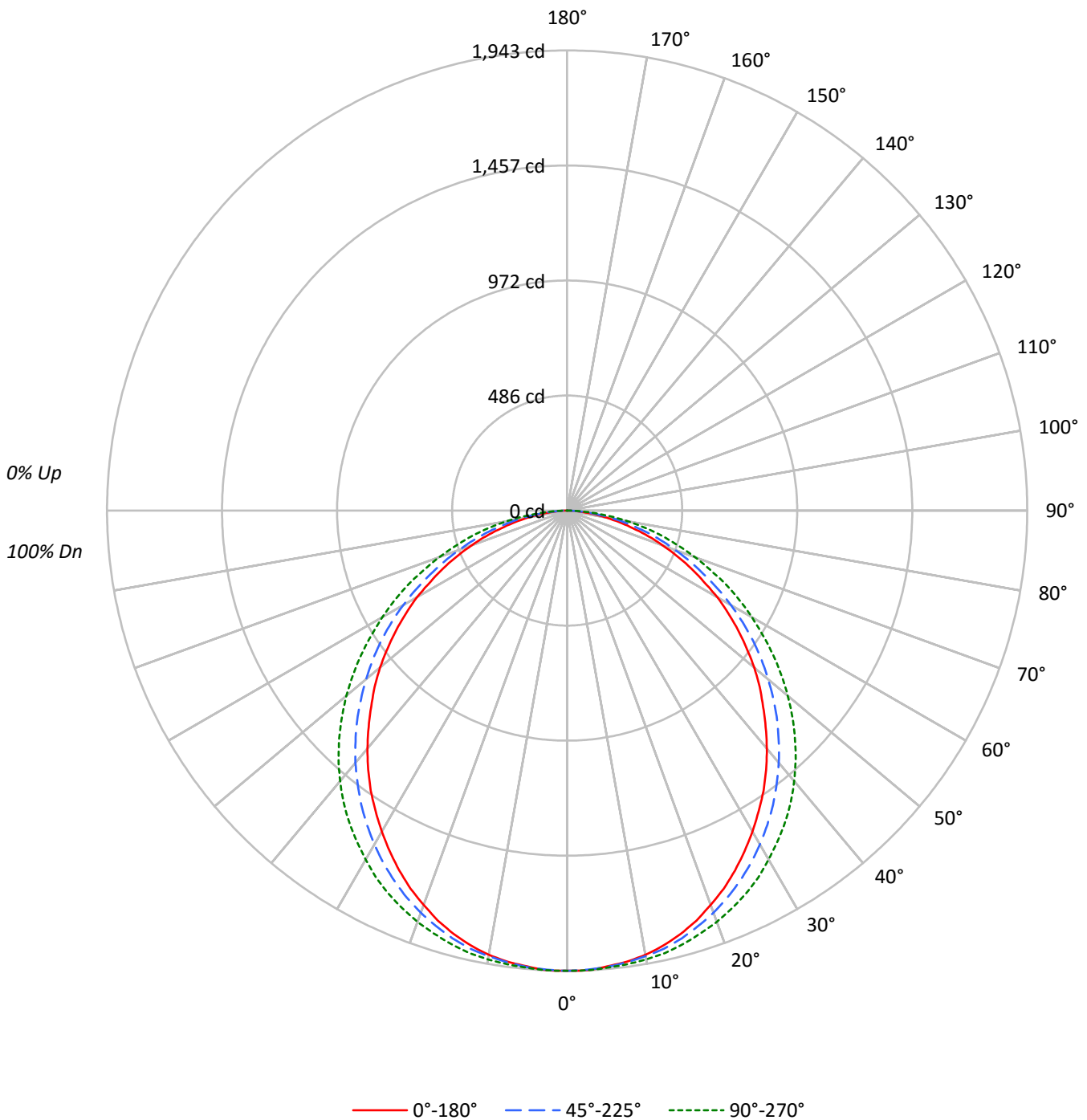
Lumens per Lamp: N/A
Luminaire Lumens: 5395.3 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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°	2615	2615	2615
5°	2610	2613	2617
10°	2603	2610	2629
15°	2578	2604	2639
20°	2537	2587	2646
25°	2489	2562	2650
30°	2431	2529	2643
35°	2374	2490	2637
40°	2304	2443	2620
45°	2227	2387	2589
50°	2159	2319	2546
55°	2069	2247	2490
60°	1970	2153	2424
65°	1837	2027	2357
70°	1692	1906	2259
75°	1500	1769	2165
80°	1265	1581	2003
85°	925	1218	1596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	3.4
10°-20°	527.7	9.8
20°-30°	795.9	14.8
30°-40°	950.2	17.6
40°-50°	971.1	18.0
50°-60°	861.1	16.0
60°-70°	641.9	11.9
70°-80°	366.7	6.8
80°-90°	96.7	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°	1507.5	27.9
0°-40°	2457.7	45.6
0°-60°	4289.9	79.5
0°-90°	5395.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5395.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1932	1932	1935	1935	1938	184
15°	1851	1856	1870	1886	1894	521
25°	1676	1690	1726	1764	1785	772
35°	1445	1464	1516	1576	1606	903
45°	1170	1195	1255	1323	1361	904
55°	882	898	958	1026	1061	788
65°	577	591	637	702	740	572
75°	288	302	340	392	416	308
85°	60	63	79	98	103	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1943.2	1943.2	1943.2	1943.2	1943.2
2.5°	1943.2	1940.5	1940.5	1940.5	1943.2
5°	1932.3	1932.3	1935.0	1935.0	1937.8
7.5°	1921.4	1921.4	1924.1	1926.9	1932.3
10°	1905.1	1905.1	1910.5	1918.7	1924.1
12.5°	1880.6	1883.3	1894.2	1905.1	1913.3
15°	1850.7	1856.1	1869.7	1886.0	1894.2
17.5°	1815.3	1820.7	1839.8	1861.6	1872.4
20°	1771.7	1782.6	1807.1	1834.3	1847.9
22.5°	1728.2	1739.1	1769.0	1801.7	1818.0
25°	1676.5	1690.1	1725.5	1763.6	1785.3
27.5°	1622.1	1638.4	1679.2	1722.8	1747.2
30°	1564.9	1584.0	1627.5	1676.5	1701.0
32.5°	1505.0	1524.1	1573.1	1627.5	1654.7
35°	1445.2	1464.2	1515.9	1575.8	1605.7
37.5°	1379.8	1398.9	1453.3	1518.6	1551.3
40°	1311.8	1333.6	1390.7	1456.0	1491.4
42.5°	1241.0	1265.5	1322.7	1393.4	1428.8
45°	1170.3	1194.8	1254.6	1322.7	1360.8
47.5°	1102.2	1121.3	1181.2	1251.9	1290.0
50°	1031.5	1047.8	1107.7	1178.4	1216.5
52.5°	955.3	977.0	1034.2	1105.0	1140.3
55°	881.8	898.1	958.0	1026.0	1061.4
57.5°	805.6	821.9	879.1	947.1	979.8
60°	732.1	748.4	800.1	868.2	900.8
62.5°	650.5	666.8	718.5	789.3	821.9
65°	577.0	590.6	636.8	702.2	740.3
67.5°	503.5	517.1	560.6	623.2	653.2
70°	430.0	440.9	484.4	541.6	574.3
72.5°	359.2	370.1	413.7	465.4	492.6
75°	288.5	302.1	340.2	391.9	416.4
77.5°	223.2	236.8	269.4	315.7	337.5
80°	163.3	174.2	204.1	239.5	258.5
82.5°	108.9	117.0	138.8	168.7	182.3
85°	59.9	62.6	78.9	98.0	103.4
87.5°	24.5	24.5	29.9	32.7	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)