

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: P385342

Luminaire Tested: **22ID-90-L830-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385342  
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: 22ID-90-L830-CNV  
Description: 2X2 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

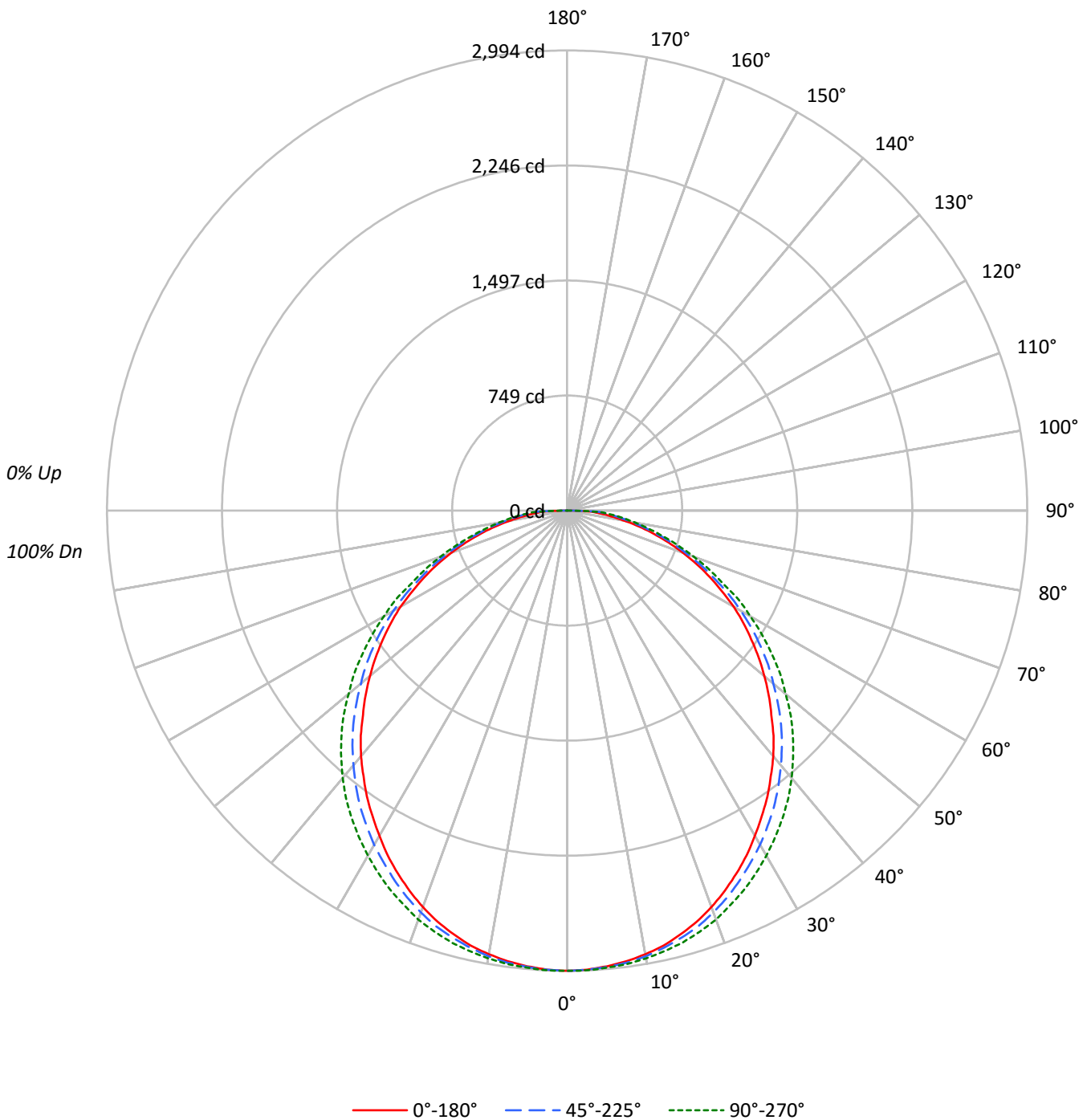
Lumens per Lamp: N/A  
Luminaire Lumens: 8684.3 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 84.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	8057	8057	8057
5°	7981	7969	8005
10°	7893	7882	7966
15°	7778	7769	7926
20°	7632	7639	7870
25°	7448	7474	7783
30°	7243	7305	7685
35°	7051	7127	7584
40°	6850	6915	7458
45°	6600	6703	7298
50°	6381	6432	7068
55°	6135	6166	6816
60°	5884	5834	6478
65°	5538	5417	6026
70°	5117	4966	5609
75°	4620	4468	5122
80°	3944	3943	4705
85°	3357	3565	4499



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.3	3.3
10°-20°	811.9	9.3
20°-30°	1225.2	14.1
30°-40°	1470.6	16.9
40°-50°	1521.9	17.5
50°-60°	1378.8	15.9
60°-70°	1062.3	12.2
70°-80°	657.3	7.6
80°-90°	273.0	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°	2320.4	26.7
0°-40°	3791.0	43.7
0°-60°	6691.7	77.1
0°-90°	8684.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8684.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2994	2994	2994	2994	2994	
5°	2976	2976	2981	2981	2985	283
15°	2854	2859	2877	2895	2908	805
25°	2606	2615	2656	2701	2723	1200
35°	2272	2290	2348	2412	2443	1420
45°	1879	1906	1969	2041	2077	1453
55°	1463	1486	1536	1603	1626	1310
65°	1025	1034	1066	1111	1116	1014
75°	583	596	619	646	646	617
85°	212	235	271	289	284	229
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2994.2	2994.2	2994.2	2994.2	2994.2
2.5°	2989.7	2989.7	2989.7	2989.7	2994.2
5°	2976.1	2976.1	2980.6	2980.6	2985.1
7.5°	2958.0	2958.0	2967.1	2967.1	2976.1
10°	2930.9	2935.5	2944.5	2949.0	2958.0
12.5°	2899.3	2899.3	2912.9	2926.4	2935.5
15°	2854.2	2858.7	2876.8	2894.8	2908.4
17.5°	2804.5	2809.0	2836.1	2854.2	2872.2
20°	2745.8	2750.3	2781.9	2809.0	2831.6
22.5°	2678.0	2687.1	2723.2	2759.3	2777.4
25°	2605.8	2614.8	2655.5	2700.6	2723.2
27.5°	2529.0	2542.6	2583.2	2632.9	2660.0
30°	2443.2	2461.3	2510.9	2565.1	2592.2
32.5°	2357.4	2375.5	2429.7	2492.9	2520.0
35°	2271.6	2289.7	2348.4	2411.6	2443.2
37.5°	2176.8	2194.8	2258.0	2325.8	2361.9
40°	2086.4	2104.5	2163.2	2240.0	2271.6
42.5°	1987.1	2005.1	2068.4	2140.6	2176.8
45°	1878.7	1905.8	1969.0	2041.3	2077.4
47.5°	1779.3	1801.9	1860.6	1937.4	1973.5
50°	1675.5	1698.1	1752.2	1829.0	1856.1
52.5°	1571.6	1594.2	1648.4	1720.6	1747.7
55°	1463.2	1485.8	1535.5	1603.2	1625.8
57.5°	1359.3	1377.4	1422.6	1485.8	1503.9
60°	1251.0	1269.0	1305.2	1363.9	1377.4
62.5°	1133.5	1147.1	1187.7	1241.9	1260.0
65°	1025.2	1034.2	1065.8	1111.0	1115.5
67.5°	912.3	921.3	952.9	984.5	998.1
70°	799.3	812.9	835.5	867.1	876.1
72.5°	691.0	704.5	727.1	754.2	758.7
75°	582.6	596.1	618.7	645.8	645.8
77.5°	478.7	492.3	519.4	541.9	541.9
80°	374.8	397.4	424.5	447.1	447.1
82.5°	289.0	307.1	343.2	361.3	361.3
85°	212.3	234.8	271.0	289.0	284.5
87.5°	153.5	176.1	207.7	221.3	216.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)