

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: P385174

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385174  
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: 22ID-90-L830-CNC  
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

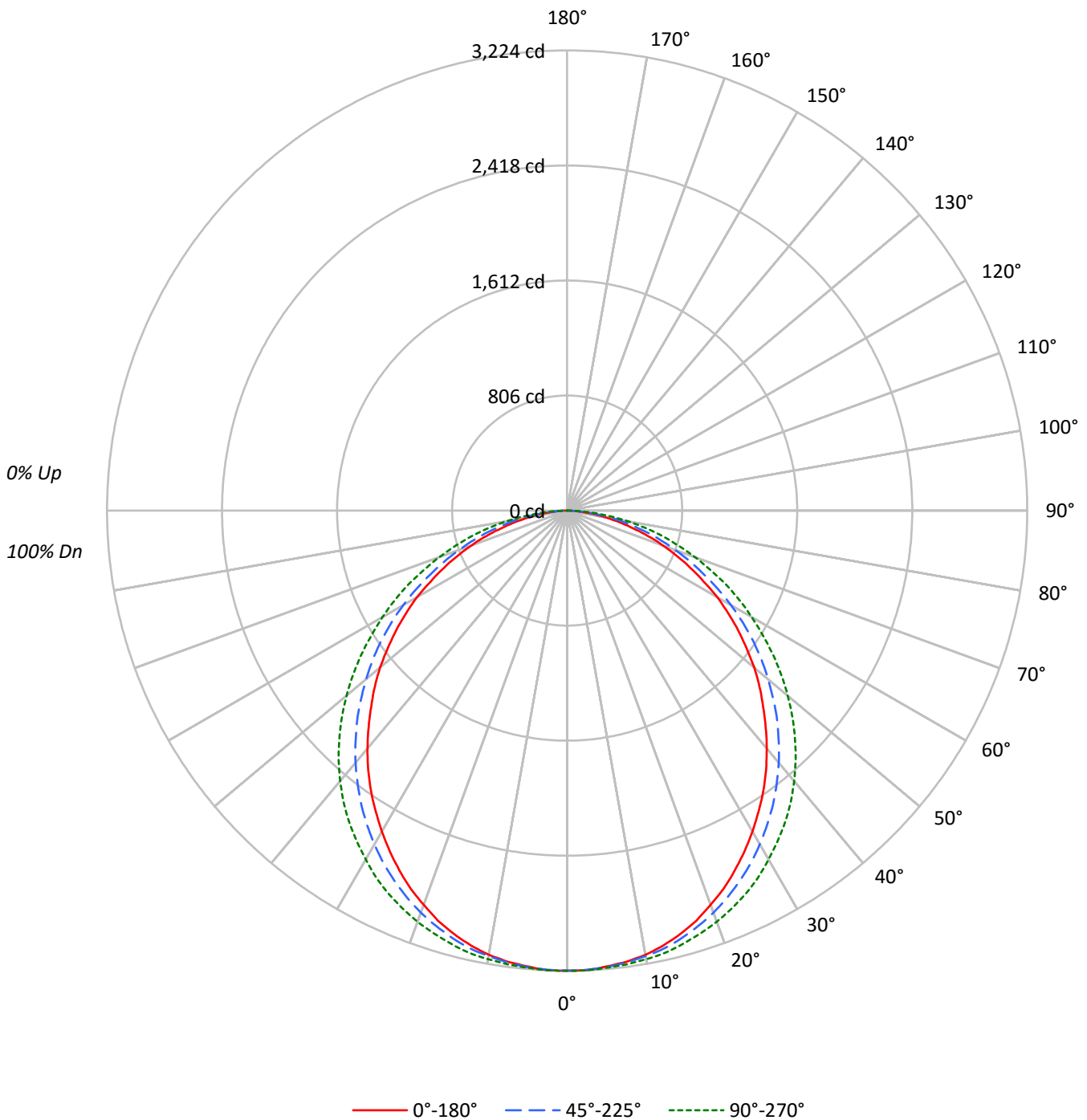
Lumens per Lamp: N/A  
Luminaire Lumens: 8950.8 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	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°	8675	8675	8675
5°	8659	8672	8684
10°	8636	8661	8723
15°	8554	8642	8755
20°	8417	8585	8779
25°	8258	8500	8794
30°	8067	8390	8768
35°	7876	8262	8751
40°	7645	8105	8692
45°	7389	7921	8591
50°	7164	7693	8449
55°	6863	7456	8261
60°	6537	7144	8043
65°	6095	6727	7820
70°	5613	6323	7496
75°	4976	5868	7182
80°	4198	5247	6647
85°	3066	4042	5298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.2	3.4
10°-20°	875.5	9.8
20°-30°	1320.4	14.8
30°-40°	1576.3	17.6
40°-50°	1611.1	18.0
50°-60°	1428.6	16.0
60°-70°	1065.0	11.9
70°-80°	608.4	6.8
80°-90°	160.5	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°	2501.0	27.9
0°-40°	4077.4	45.6
0°-60°	7117.0	79.5
0°-90°	8950.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8950.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3224	3224	3224	3224	3224	
5°	3206	3206	3210	3210	3215	305
15°	3070	3079	3102	3129	3142	865
25°	2781	2804	2863	2926	2962	1281
35°	2398	2429	2515	2614	2664	1498
45°	1942	1982	2082	2194	2258	1500
55°	1463	1490	1589	1702	1761	1307
65°	957	980	1056	1165	1228	949
75°	479	501	564	650	691	511
85°	99	104	131	162	172	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3223.8	3223.8	3223.8	3223.8	3223.8
2.5°	3223.8	3219.3	3219.3	3219.3	3223.8
5°	3205.7	3205.7	3210.2	3210.2	3214.7
7.5°	3187.6	3187.6	3192.2	3196.7	3205.7
10°	3160.6	3160.6	3169.6	3183.1	3192.2
12.5°	3119.9	3124.4	3142.5	3160.6	3174.1
15°	3070.3	3079.3	3101.9	3128.9	3142.5
17.5°	3011.6	3020.6	3052.2	3088.3	3106.4
20°	2939.3	2957.4	2998.0	3043.2	3065.7
22.5°	2867.1	2885.1	2934.8	2989.0	3016.1
25°	2781.3	2803.9	2862.6	2925.8	2961.9
27.5°	2691.0	2718.1	2785.8	2858.0	2898.7
30°	2596.2	2627.8	2700.0	2781.3	2821.9
32.5°	2496.8	2528.4	2609.7	2700.0	2745.2
35°	2397.5	2429.1	2514.9	2614.2	2663.9
37.5°	2289.1	2320.7	2411.1	2519.4	2573.6
40°	2176.3	2212.4	2307.2	2415.6	2474.3
42.5°	2058.9	2099.5	2194.3	2311.7	2370.4
45°	1941.5	1982.1	2081.5	2194.3	2257.5
47.5°	1828.6	1860.2	1959.5	2076.9	2140.1
50°	1711.2	1738.3	1837.6	1955.0	2018.2
52.5°	1584.8	1620.9	1715.7	1833.1	1891.8
55°	1462.9	1490.0	1589.3	1702.2	1760.9
57.5°	1336.5	1363.6	1458.4	1571.2	1625.4
60°	1214.6	1241.6	1327.4	1440.3	1494.5
62.5°	1079.1	1106.2	1192.0	1309.4	1363.6
65°	957.2	979.8	1056.5	1164.9	1228.1
67.5°	835.3	857.9	930.1	1034.0	1083.6
70°	713.4	731.4	803.7	898.5	952.7
72.5°	596.0	614.1	686.3	772.1	817.2
75°	478.6	501.2	564.4	650.2	690.8
77.5°	370.2	392.8	447.0	523.7	559.9
80°	270.9	289.0	338.6	397.3	428.9
82.5°	180.6	194.1	230.3	279.9	302.5
85°	99.3	103.8	130.9	162.5	171.6
87.5°	40.6	40.6	49.7	54.2	58.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)