

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: P412443

Luminaire Tested: **22PD-70-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-70-PB1-L830  
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

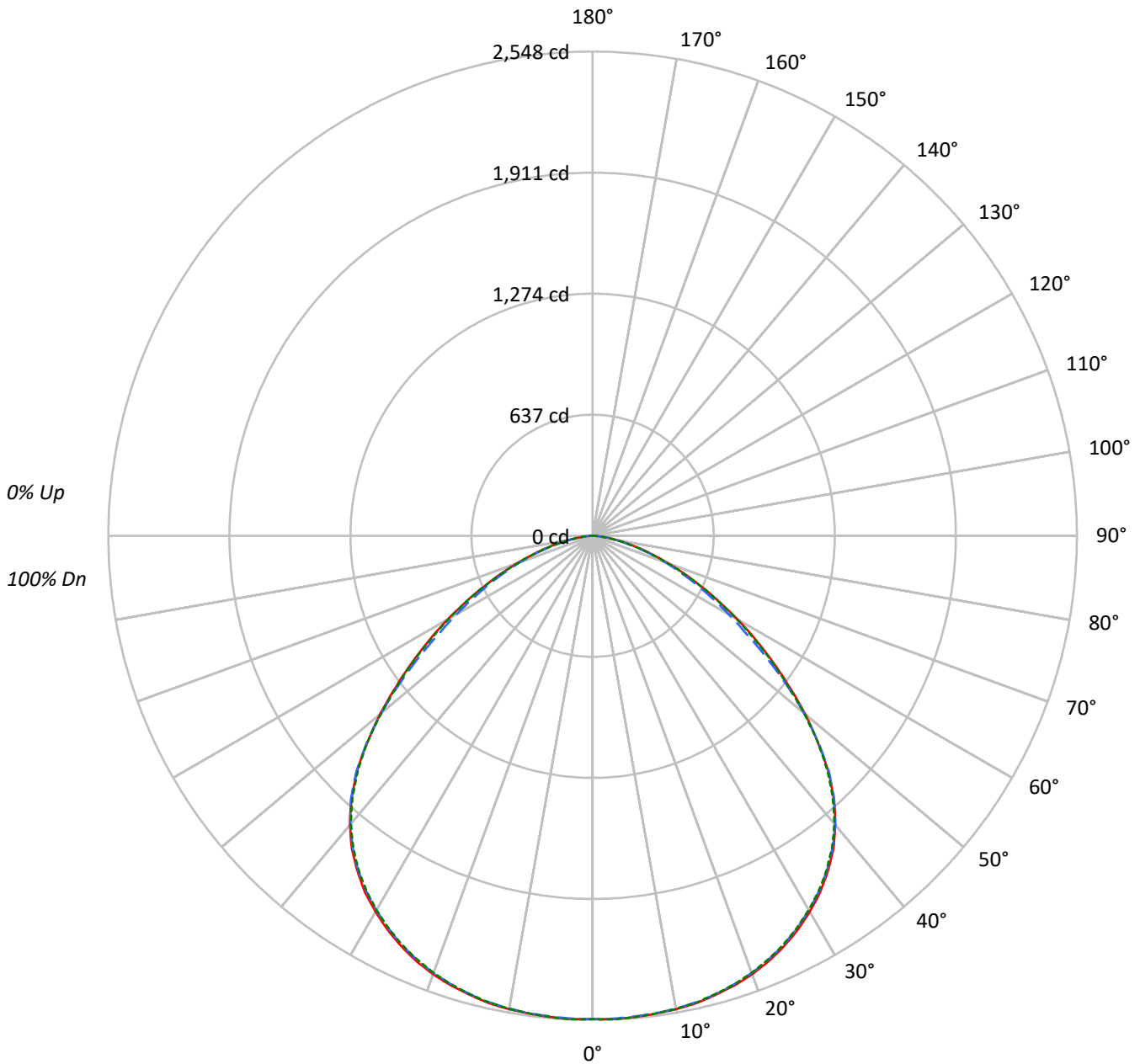
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6678.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.9  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73																			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37																			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																			
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6845	6845	6845
5°	6867	6860	6869
10°	6912	6903	6907
15°	6968	6957	6957
20°	7032	7012	7007
25°	7076	7055	7048
30°	7100	7070	7066
35°	7085	7064	7051
40°	6979	6971	6949
45°	6672	6693	6642
50°	6108	6075	6069
55°	5428	5236	5391
60°	4732	4445	4703
65°	4011	3796	3992
70°	3317	3181	3286
75°	2682	2511	2576
80°	1939	1877	1864
85°	1263	1263	1213



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	3.6
10°-20°	705.9	10.6
20°-30°	1095.3	16.4
30°-40°	1343.2	20.1
40°-50°	1342.7	20.1
50°-60°	1017.1	15.2
60°-70°	610.0	9.1
70°-80°	268.6	4.0
80°-90°	53.3	0.8
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°	2043.2	30.6
0°-40°	3386.4	50.7
0°-60°	5746.1	86.0
0°-90°	6678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2544	2544	2544	2544	2544	
5°	2542	2539	2540	2539	2543	242
15°	2501	2499	2497	2496	2497	707
25°	2383	2378	2376	2372	2374	1099
35°	2157	2156	2150	2149	2146	1347
45°	1753	1756	1759	1754	1745	1342
55°	1157	1132	1116	1131	1149	1037
65°	630	608	596	606	627	630
75°	258	252	242	245	248	275
85°	41	42	41	39	39	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2543.6	2543.6	2543.6	2543.6	2543.6
2.5°	2546.0	2542.1	2542.9	2542.9	2547.6
5°	2542.1	2538.9	2539.7	2538.9	2542.9
7.5°	2536.6	2533.4	2534.2	2533.4	2535.8
10°	2529.5	2526.3	2526.3	2524.8	2527.9
12.5°	2520.0	2516.1	2514.5	2513.8	2516.1
15°	2501.2	2498.8	2497.2	2495.7	2497.2
17.5°	2480.7	2476.8	2475.2	2472.1	2475.2
20°	2455.6	2450.0	2448.5	2446.1	2446.9
22.5°	2422.5	2417.8	2415.4	2411.5	2413.1
25°	2383.2	2378.5	2376.1	2372.2	2373.8
27.5°	2337.6	2334.4	2328.9	2325.8	2326.6
30°	2284.9	2281.7	2275.4	2273.9	2273.9
32.5°	2226.7	2222.7	2217.2	2215.7	2214.9
35°	2156.7	2155.9	2150.4	2148.8	2146.4
37.5°	2080.4	2078.8	2072.5	2070.9	2068.6
40°	1986.8	1985.2	1984.4	1981.3	1978.1
42.5°	1878.2	1880.6	1882.2	1875.9	1869.6
45°	1753.2	1755.5	1758.7	1754.0	1745.3
47.5°	1606.9	1616.3	1611.6	1614.7	1606.1
50°	1459.0	1459.0	1451.2	1454.3	1449.6
52.5°	1304.1	1291.5	1282.0	1288.3	1294.6
55°	1157.0	1131.8	1116.1	1131.0	1149.1
57.5°	1016.2	986.3	957.2	980.8	1002.8
60°	879.3	844.7	825.9	843.2	873.8
62.5°	749.6	724.4	705.5	718.9	744.8
65°	630.0	608.0	596.2	606.4	626.9
67.5°	520.7	505.7	493.9	502.6	518.3
70°	421.6	417.6	404.3	408.2	417.6
72.5°	331.1	330.3	318.5	321.7	327.2
75°	258.0	252.5	241.5	245.4	247.8
77.5°	182.5	184.8	174.6	177.0	177.0
80°	125.1	129.0	121.1	119.6	120.3
82.5°	79.4	79.4	78.7	77.9	75.5
85°	40.9	42.5	40.9	39.3	39.3
87.5°	15.7	15.7	15.7	14.9	14.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)