

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: P412563

Luminaire Tested: **24PD-70-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-70-PB1-L850  
Description: 7000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

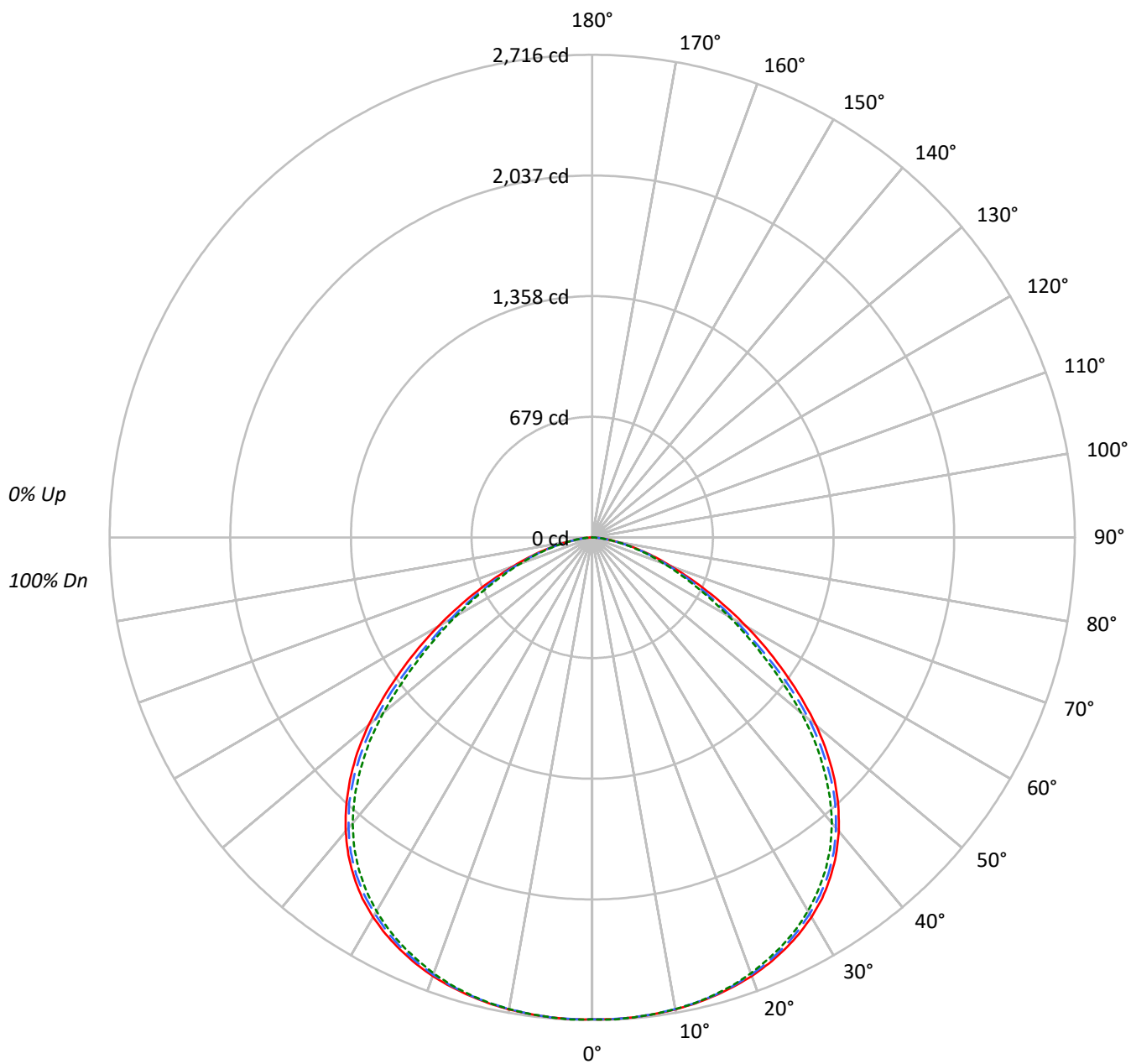
Lumens per Lamp: N/A  
Luminaire Lumens: 7216.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.5  
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54		
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47		
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41		
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37		
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27		

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

	0°	45°	90°
0°	3649	3649	3649
5°	3661	3661	3661
10°	3685	3681	3682
15°	3718	3713	3710
20°	3760	3748	3738
25°	3800	3781	3759
30°	3833	3801	3772
35°	3837	3804	3757
40°	3792	3748	3685
45°	3669	3602	3509
50°	3441	3334	3212
55°	3092	2909	2789
60°	2692	2478	2383
65°	2266	2096	2004
70°	1846	1753	1683
75°	1480	1428	1368
80°	1136	1047	1019
85°	710	689	689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.2	3.6
10°-20°	753.6	10.4
20°-30°	1174.0	16.3
30°-40°	1444.3	20.0
40°-50°	1450.7	20.1
50°-60°	1118.1	15.5
60°-70°	663.8	9.2
70°-80°	295.5	4.1
80°-90°	57.7	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°	2185.8	30.3
0°-40°	3630.1	50.3
0°-60°	6199.0	85.9
0°-90°	7216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2710	2711	2710	2708	2710	258
15°	2670	2670	2666	2662	2664	755
25°	2560	2559	2547	2535	2532	1180
35°	2336	2332	2316	2296	2287	1459
45°	1928	1923	1893	1862	1844	1480
55°	1318	1293	1240	1202	1189	1179
65°	712	681	658	633	630	711
75°	285	279	275	265	263	308
85°	46	44	45	42	45	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2711.9	2711.9	2711.9	2711.9	2711.9
2.5°	2713.3	2712.6	2712.6	2709.7	2715.5
5°	2710.4	2711.1	2710.4	2707.6	2710.4
7.5°	2704.7	2705.4	2704.0	2701.1	2704.0
10°	2697.5	2697.5	2694.6	2693.2	2695.3
12.5°	2685.3	2685.3	2682.4	2680.2	2682.4
15°	2669.5	2669.5	2665.9	2661.6	2663.7
17.5°	2650.1	2650.1	2644.3	2638.6	2640.0
20°	2626.3	2625.6	2617.7	2609.8	2610.5
22.5°	2596.1	2595.4	2585.4	2576.0	2573.1
25°	2559.5	2558.8	2546.6	2535.1	2532.2
27.5°	2517.1	2514.2	2500.6	2487.6	2484.7
30°	2466.8	2464.6	2446.6	2433.7	2428.0
32.5°	2408.6	2402.8	2386.3	2370.5	2362.5
35°	2336.0	2332.4	2315.8	2296.4	2287.1
37.5°	2254.0	2250.4	2232.5	2210.9	2200.1
40°	2159.1	2156.3	2134.0	2111.7	2098.0
42.5°	2049.9	2047.7	2024.0	1993.1	1978.7
45°	1928.4	1923.4	1893.2	1861.6	1844.3
47.5°	1793.3	1784.7	1748.0	1717.8	1699.1
50°	1643.8	1632.3	1592.8	1553.9	1534.5
52.5°	1482.1	1461.9	1421.0	1376.4	1357.7
55°	1318.2	1293.0	1239.9	1202.5	1188.8
57.5°	1157.9	1121.3	1070.9	1044.4	1030.7
60°	1000.5	960.3	920.7	894.9	885.5
62.5°	850.3	816.5	782.7	756.8	751.1
65°	711.6	680.7	658.4	633.2	629.6
67.5°	582.2	567.8	547.7	526.1	523.3
70°	469.3	463.6	445.6	432.7	427.7
72.5°	374.5	368.7	355.8	346.4	345.0
75°	284.6	278.9	274.6	265.2	263.1
77.5°	202.7	203.4	199.8	194.8	196.2
80°	146.6	138.0	135.1	132.3	131.5
82.5°	89.8	84.8	82.7	81.9	83.4
85°	46.0	43.8	44.6	42.4	44.6
87.5°	15.8	15.8	16.5	15.8	17.3
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)