

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: P412922

Luminaire Tested: **24PD-80-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-80-PP3-L840  
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

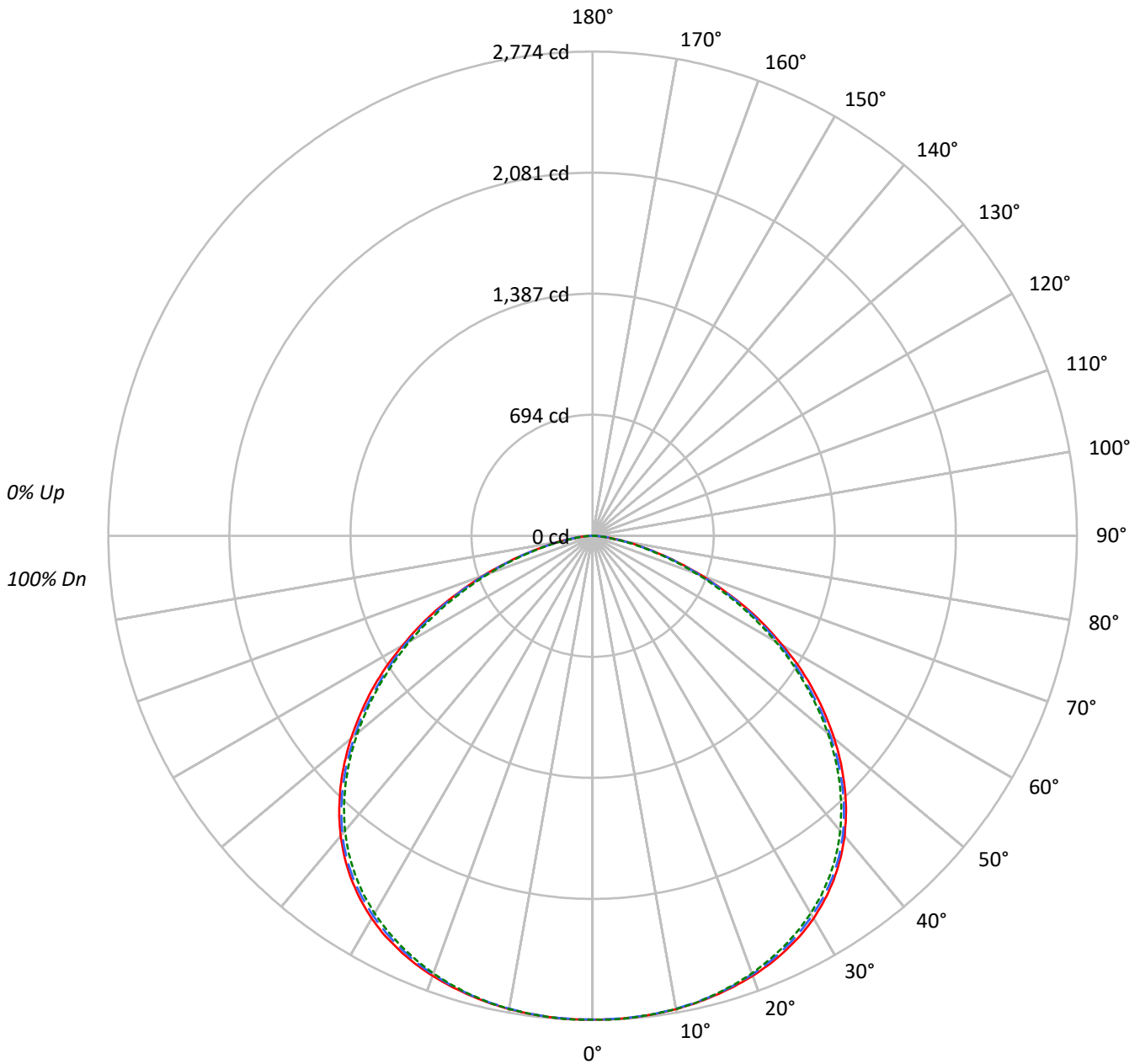
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8065.0 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.2  
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

TEST NUMBER: P412922

CATALOG NUMBER: 24PD-80-PP3-L840

### 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

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

	0°	45°	90°
0°	3729	3729	3729
5°	3739	3738	3740
10°	3763	3758	3762
15°	3796	3790	3788
20°	3842	3829	3820
25°	3890	3870	3852
30°	3933	3906	3881
35°	3954	3930	3895
40°	3944	3920	3876
45°	3888	3849	3806
50°	3781	3720	3681
55°	3624	3537	3492
60°	3377	3318	3251
65°	3061	3000	2912
70°	2613	2565	2483
75°	2040	2020	1923
80°	1505	1443	1361
85°	908	908	846



TEST NUMBER: P412922

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.7	3.3
10°-20°	769.5	9.5
20°-30°	1202.7	14.9
30°-40°	1494.8	18.5
40°-50°	1557.4	19.3
50°-60°	1351.4	16.8
60°-70°	929.3	11.5
70°-80°	419.4	5.2
80°-90°	76.8	1.0
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°	2235.9	27.7
0°-40°	3730.7	46.3
0°-60°	6639.5	82.3
0°-90°	8065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2772	2772	2772	2772	2772	
5°	2768	2769	2768	2765	2769	264
15°	2725	2725	2721	2718	2719	771
25°	2620	2619	2606	2596	2594	1209
35°	2407	2407	2393	2379	2371	1504
45°	2043	2044	2023	2008	2000	1573
55°	1545	1536	1508	1490	1489	1377
65°	962	958	942	920	915	949
75°	392	394	388	378	370	427
85°	59	58	59	58	55	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2771.7	2771.7	2771.7	2771.7	2771.7
2.5°	2772.5	2772.5	2770.9	2768.5	2774.1
5°	2768.5	2769.3	2767.7	2765.3	2769.3
7.5°	2762.8	2763.6	2761.2	2758.8	2762.0
10°	2754.0	2753.2	2750.8	2749.1	2753.2
12.5°	2741.1	2740.3	2737.9	2736.2	2739.5
15°	2725.0	2725.0	2720.9	2718.5	2719.3
17.5°	2705.6	2705.6	2700.0	2694.3	2695.9
20°	2683.0	2682.2	2674.2	2668.5	2667.7
22.5°	2654.8	2654.8	2643.6	2636.3	2633.9
25°	2620.2	2619.4	2606.5	2596.0	2594.4
27.5°	2580.7	2579.1	2563.8	2553.3	2549.3
30°	2531.5	2529.9	2513.8	2502.5	2497.7
32.5°	2473.5	2475.9	2457.4	2444.5	2439.6
35°	2407.4	2407.4	2392.9	2379.2	2371.1
37.5°	2331.6	2331.6	2317.9	2304.2	2294.6
40°	2245.4	2246.2	2231.7	2214.8	2206.7
42.5°	2148.7	2150.3	2131.0	2117.3	2108.4
45°	2043.1	2043.9	2023.0	2007.7	2000.4
47.5°	1928.7	1927.1	1903.7	1890.8	1883.5
50°	1806.2	1802.9	1777.1	1765.1	1758.6
52.5°	1678.0	1671.6	1649.0	1631.3	1625.6
55°	1545.0	1536.2	1508.0	1490.2	1488.6
57.5°	1406.4	1395.9	1372.6	1355.6	1349.2
60°	1254.9	1252.5	1233.1	1213.0	1208.1
62.5°	1113.0	1105.8	1088.9	1064.7	1062.3
65°	961.5	957.5	942.2	919.6	914.8
67.5°	805.2	809.2	796.3	776.1	769.7
70°	664.1	666.5	652.0	633.5	631.1
72.5°	522.3	526.3	514.2	502.1	499.7
75°	392.5	394.1	388.5	378.0	369.9
77.5°	278.9	284.5	278.1	270.8	264.4
80°	194.2	185.4	186.2	183.0	175.7
82.5°	116.9	112.8	112.0	108.8	105.6
85°	58.8	58.0	58.8	58.0	54.8
87.5°	19.3	21.0	21.8	21.8	20.1
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)