

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: METALUX

Report Number: P413264

Luminaire Tested: **24PD-80-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-80-PC3-L840
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

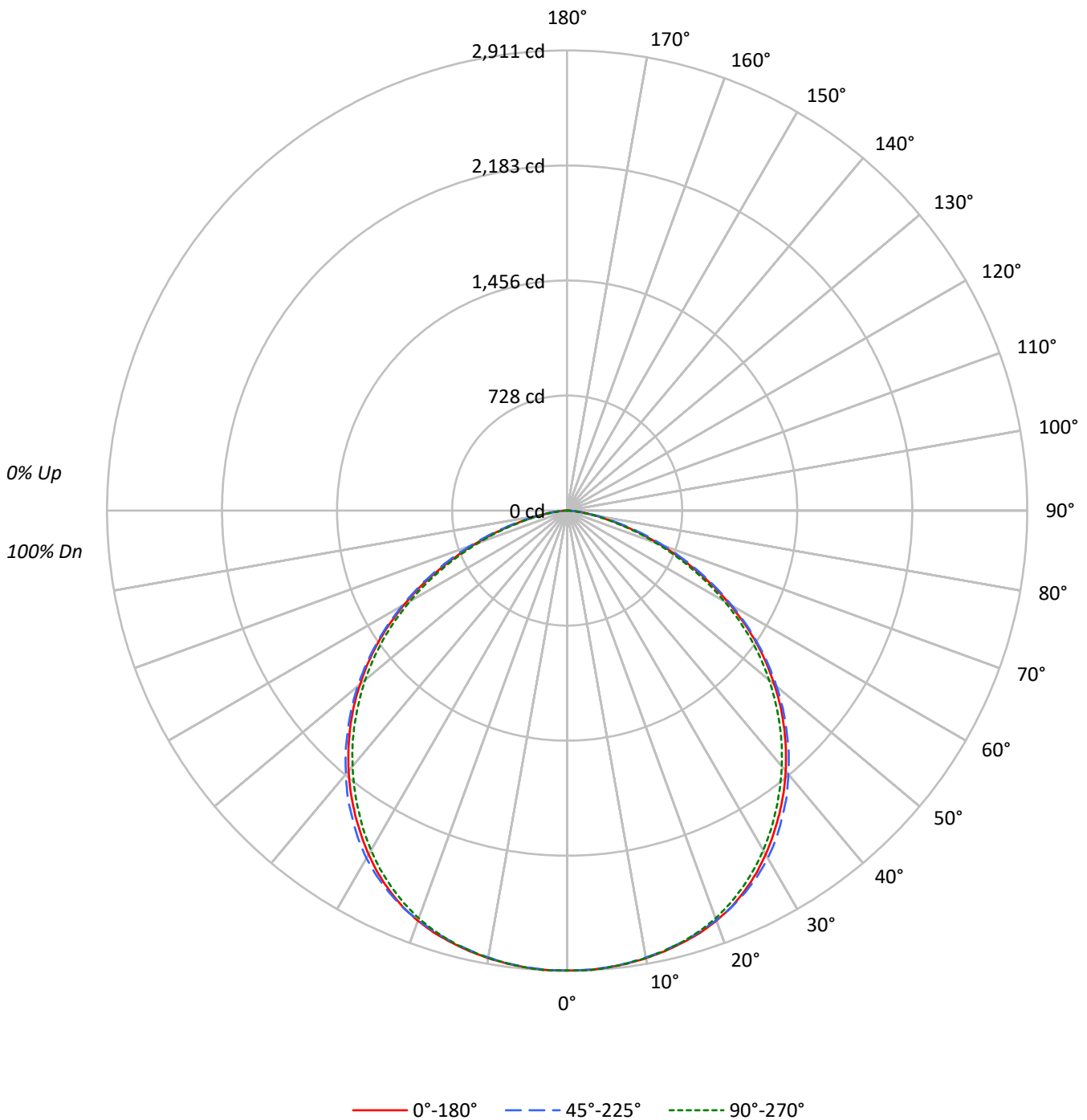
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7953.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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

TEST NUMBER: P413264
CATALOG NUMBER: 24PD-80-PC3-L840

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	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3915	3915	3915
5°	3920	3918	3921
10°	3928	3922	3926
15°	3941	3933	3934
20°	3954	3948	3931
25°	3943	3957	3902
30°	3903	3945	3854
35°	3846	3895	3788
40°	3778	3824	3710
45°	3693	3733	3616
50°	3578	3619	3491
55°	3432	3462	3329
60°	3203	3240	3093
65°	2887	2959	2774
70°	2451	2559	2353
75°	1898	2036	1810
80°	1412	1474	1280
85°	871	932	809



TEST NUMBER: P413264

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.0	3.5
10°-20°	797.9	10.0
20°-30°	1222.0	15.4
30°-40°	1470.0	18.5
40°-50°	1499.0	18.8
50°-60°	1299.6	16.3
60°-70°	901.0	11.3
70°-80°	411.5	5.2
80°-90°	76.0	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°	2295.9	28.9
0°-40°	3766.0	47.4
0°-60°	6564.5	82.5
0°-90°	7953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2910	2910	2910	2910	2910	
5°	2902	2902	2901	2899	2903	276
15°	2829	2828	2823	2821	2824	799
25°	2656	2663	2665	2642	2628	1223
35°	2341	2366	2371	2341	2306	1464
45°	1941	1965	1962	1935	1900	1496
55°	1463	1472	1476	1440	1419	1303
65°	907	926	929	898	871	896
75°	365	385	392	379	348	399
85°	56	58	60	57	52	76
90°	0	0	0	0	0	



TEST NUMBER: P413264

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2909.6	2909.6	2909.6	2909.6	2909.6
2.5°	2909.6	2909.6	2908.0	2906.4	2911.2
5°	2902.4	2902.4	2900.7	2899.1	2903.2
7.5°	2891.1	2890.3	2888.7	2887.0	2889.5
10°	2875.0	2874.2	2870.9	2870.1	2873.3
12.5°	2854.8	2854.0	2849.2	2849.2	2851.6
15°	2829.0	2828.2	2823.4	2821.0	2824.2
17.5°	2800.0	2799.2	2793.6	2787.1	2788.7
20°	2761.3	2761.3	2757.3	2747.6	2745.2
22.5°	2714.6	2717.0	2717.0	2698.4	2691.2
25°	2655.7	2663.0	2665.4	2642.0	2628.3
27.5°	2588.8	2600.1	2606.6	2576.7	2559.0
30°	2512.3	2530.8	2538.9	2506.6	2480.8
32.5°	2428.4	2451.8	2461.5	2430.1	2397.0
35°	2341.4	2366.4	2371.2	2340.6	2305.9
37.5°	2248.7	2274.5	2280.9	2253.5	2210.8
40°	2151.2	2177.0	2177.0	2154.4	2112.5
42.5°	2048.0	2075.4	2074.6	2047.2	2009.3
45°	1940.8	1965.0	1961.8	1935.2	1900.5
47.5°	1830.4	1845.7	1849.7	1818.3	1785.3
50°	1709.5	1724.8	1728.8	1693.4	1667.6
52.5°	1590.2	1599.9	1605.5	1564.4	1545.9
55°	1462.9	1471.7	1475.8	1439.5	1419.3
57.5°	1328.3	1339.6	1344.4	1308.1	1285.5
60°	1190.4	1202.5	1204.1	1170.3	1149.3
62.5°	1050.2	1066.3	1069.5	1035.7	1010.7
65°	906.7	926.1	929.3	897.9	871.3
67.5°	763.3	789.1	789.9	764.1	732.6
70°	623.0	651.2	650.4	628.7	598.0
72.5°	489.2	515.0	520.7	500.5	470.7
75°	365.1	385.3	391.7	378.8	348.2
77.5°	259.5	278.1	283.7	271.6	249.1
80°	182.2	183.0	190.2	180.5	165.2
82.5°	112.8	111.2	113.6	109.6	100.7
85°	56.4	58.0	60.4	57.2	52.4
87.5°	19.3	20.1	21.8	21.8	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)