

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: P413261

Luminaire Tested: **24PD-75-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

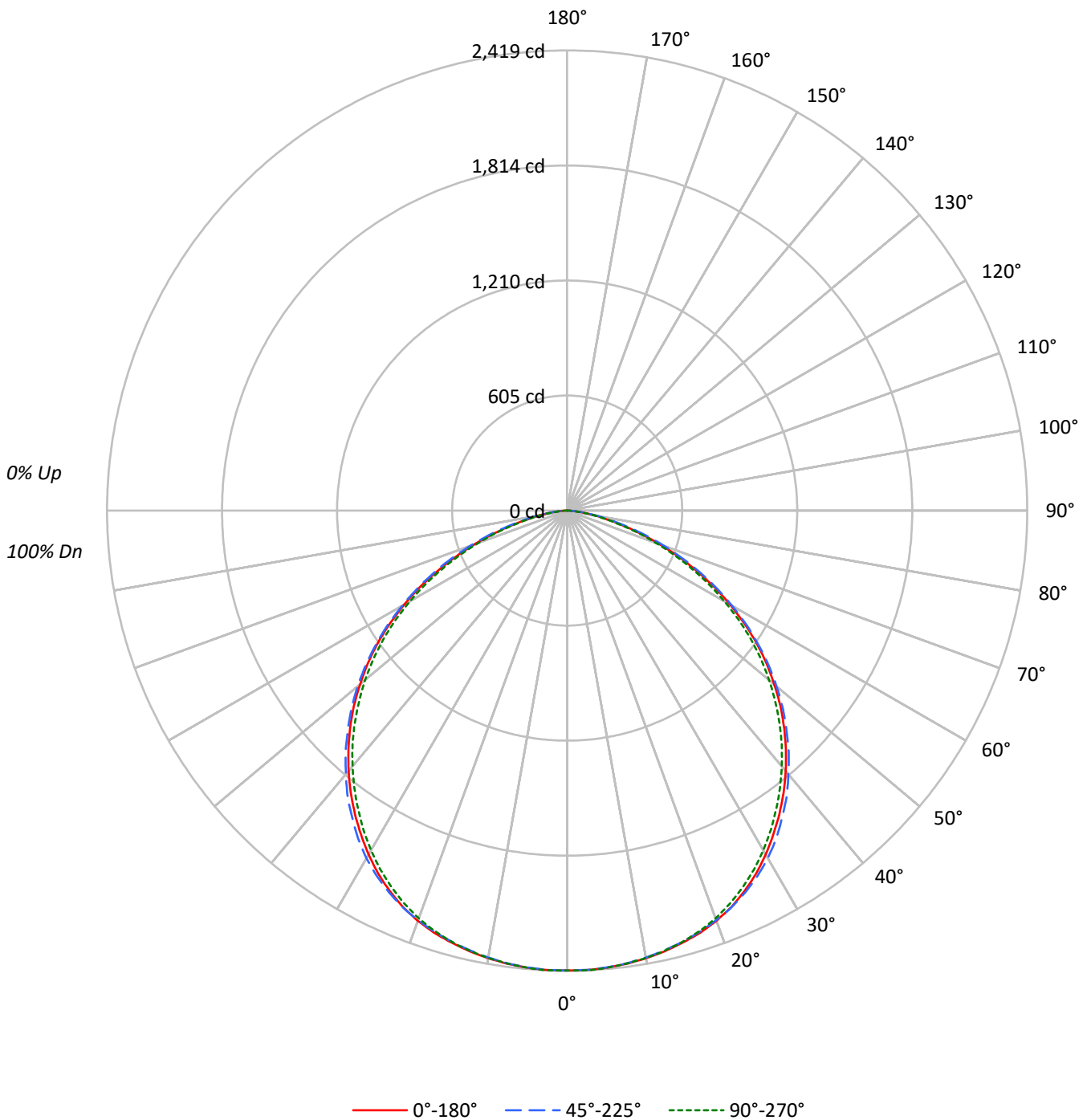
Test Method: LM-79-08  
Report Number: P413261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-75-PC3-L950  
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6609.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 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): 56.3  
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

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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	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°	3253	3253	3253
5°	3258	3256	3259
10°	3264	3260	3262
15°	3275	3268	3269
20°	3286	3281	3266
25°	3276	3288	3243
30°	3244	3278	3203
35°	3196	3237	3147
40°	3140	3178	3083
45°	3069	3102	3005
50°	2974	3007	2901
55°	2852	2877	2767
60°	2662	2693	2570
65°	2399	2459	2305
70°	2037	2126	1955
75°	1577	1692	1504
80°	1173	1225	1064
85°	724	775	672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.4	3.5
10°-20°	663.1	10.0
20°-30°	1015.5	15.4
30°-40°	1221.6	18.5
40°-50°	1245.7	18.8
50°-60°	1080.0	16.3
60°-70°	748.7	11.3
70°-80°	342.0	5.2
80°-90°	63.2	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°	1907.9	28.9
0°-40°	3129.5	47.4
0°-60°	5455.2	82.5
0°-90°	6609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2418	2418	2418	2418	2418	
5°	2412	2412	2410	2409	2413	230
15°	2351	2350	2346	2344	2347	664
25°	2207	2213	2215	2196	2184	1016
35°	1946	1966	1970	1945	1916	1217
45°	1613	1633	1630	1608	1579	1243
55°	1216	1223	1226	1196	1180	1083
65°	754	770	772	746	724	745
75°	303	320	326	315	289	332
85°	47	48	50	48	44	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2417.9	2417.9	2417.9	2417.9	2417.9
2.5°	2417.9	2417.9	2416.6	2415.2	2419.2
5°	2411.9	2411.9	2410.5	2409.2	2412.6
7.5°	2402.5	2401.8	2400.5	2399.2	2401.2
10°	2389.1	2388.4	2385.8	2385.1	2387.8
12.5°	2372.4	2371.7	2367.7	2367.7	2369.7
15°	2350.9	2350.3	2346.2	2344.2	2346.9
17.5°	2326.8	2326.1	2321.5	2316.1	2317.4
20°	2294.7	2294.7	2291.3	2283.3	2281.3
22.5°	2255.8	2257.8	2257.8	2242.4	2236.4
25°	2206.9	2213.0	2215.0	2195.5	2184.2
27.5°	2151.3	2160.7	2166.1	2141.3	2126.6
30°	2087.7	2103.1	2109.8	2083.0	2061.6
32.5°	2018.1	2037.5	2045.5	2019.4	1991.9
35°	1945.7	1966.5	1970.5	1945.0	1916.2
37.5°	1868.7	1890.1	1895.5	1872.7	1837.2
40°	1787.6	1809.1	1809.1	1790.3	1755.5
42.5°	1701.9	1724.7	1724.0	1701.2	1669.8
45°	1612.8	1632.9	1630.2	1608.1	1579.3
47.5°	1521.1	1533.8	1537.1	1511.0	1483.6
50°	1420.6	1433.3	1436.7	1407.2	1385.8
52.5°	1321.5	1329.5	1334.2	1300.0	1284.6
55°	1215.7	1223.0	1226.4	1196.2	1179.5
57.5°	1103.8	1113.2	1117.2	1087.1	1068.3
60°	989.3	999.3	1000.7	972.5	955.1
62.5°	872.7	886.1	888.8	860.7	839.9
65°	753.5	769.6	772.3	746.1	724.0
67.5°	634.3	655.7	656.4	635.0	608.8
70°	517.7	541.2	540.5	522.4	497.0
72.5°	406.6	428.0	432.7	415.9	391.2
75°	303.4	320.2	325.5	314.8	289.3
77.5°	215.7	231.1	235.8	225.7	207.0
80°	151.4	152.0	158.1	150.0	137.3
82.5°	93.8	92.4	94.4	91.1	83.7
85°	46.9	48.2	50.2	47.6	43.5
87.5°	16.1	16.7	18.1	18.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)