

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: P413188

Luminaire Tested: **24PD-35-PC3-L940**

Issue Date: 9/15/2020



**Test Information**

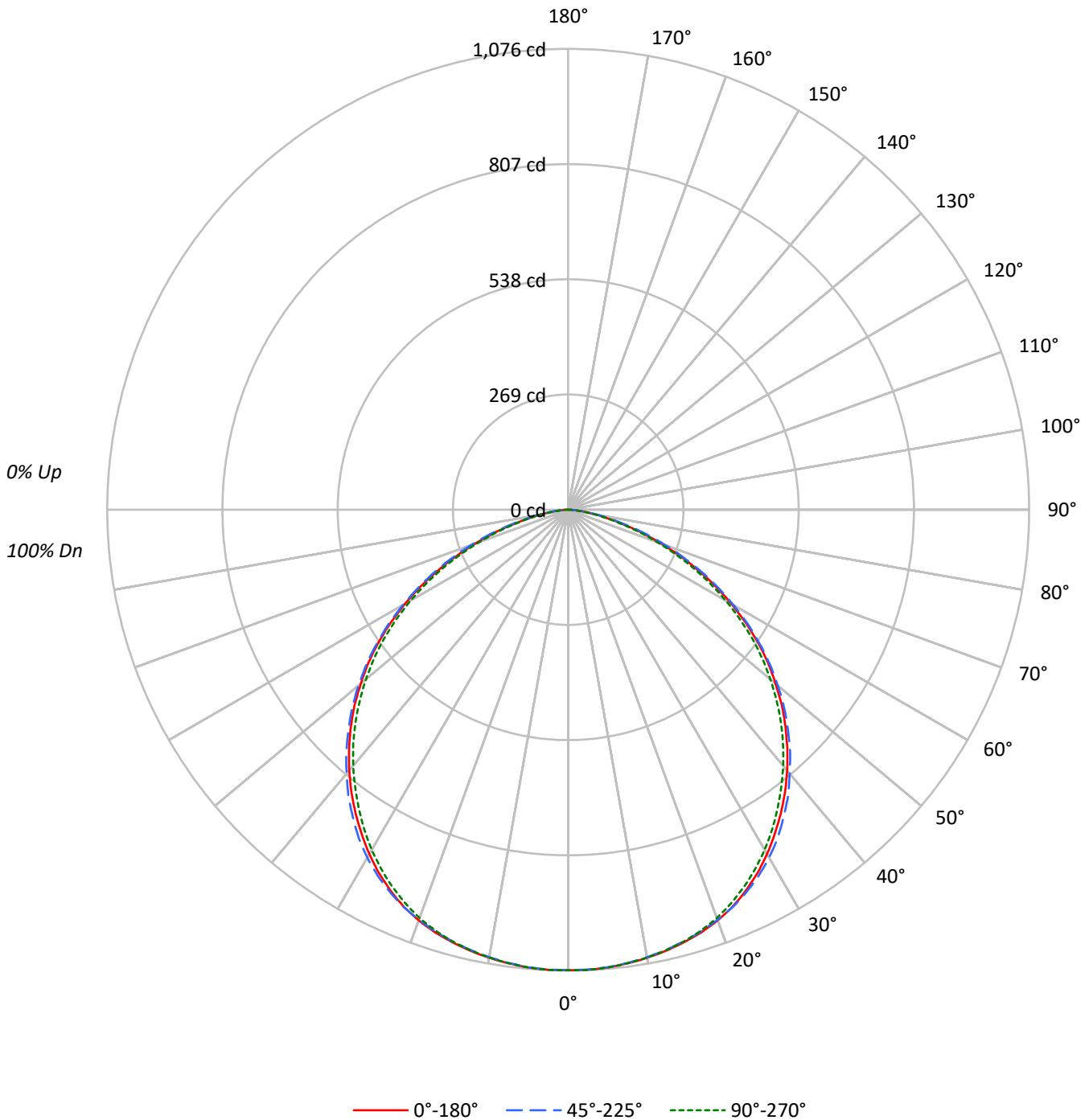
Test Method: LM-79-08  
Report Number: P413188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-35-PC3-L940  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2939.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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): 25.8  
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°	1447	1447	1447
5°	1449	1448	1449
10°	1451	1449	1451
15°	1456	1453	1454
20°	1461	1459	1453
25°	1457	1462	1442
30°	1442	1458	1424
35°	1421	1439	1400
40°	1396	1413	1371
45°	1365	1380	1336
50°	1322	1337	1290
55°	1268	1279	1230
60°	1184	1197	1143
65°	1067	1093	1025
70°	906	946	869
75°	701	753	669
80°	521	545	473
85°	321	344	299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	3.5
10°-20°	294.9	10.0
20°-30°	451.6	15.4
30°-40°	543.3	18.5
40°-50°	554.0	18.8
50°-60°	480.3	16.3
60°-70°	333.0	11.3
70°-80°	152.1	5.2
80°-90°	28.1	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°	848.4	28.9
0°-40°	1391.7	47.4
0°-60°	2425.9	82.5
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1073	1073	1072	1071	1073	102
15°	1046	1045	1043	1042	1044	295
25°	981	984	985	976	971	452
35°	865	874	876	865	852	541
45°	717	726	725	715	702	553
55°	541	544	545	532	524	482
65°	335	342	343	332	322	331
75°	135	142	145	140	129	148
85°	21	21	22	21	19	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1075.2	1075.2	1074.6	1074.0	1075.8
5°	1072.6	1072.6	1072.0	1071.4	1072.9
7.5°	1068.4	1068.1	1067.5	1066.9	1067.8
10°	1062.4	1062.1	1060.9	1060.6	1061.8
12.5°	1055.0	1054.7	1052.9	1052.9	1053.8
15°	1045.5	1045.2	1043.4	1042.5	1043.7
17.5°	1034.7	1034.4	1032.3	1030.0	1030.6
20°	1020.4	1020.4	1018.9	1015.4	1014.5
22.5°	1003.2	1004.1	1004.1	997.2	994.5
25°	981.4	984.1	985.0	976.4	971.3
27.5°	956.7	960.9	963.2	952.2	945.7
30°	928.4	935.2	938.2	926.3	916.8
32.5°	897.4	906.1	909.6	898.0	885.8
35°	865.3	874.5	876.3	865.0	852.1
37.5°	831.0	840.5	842.9	832.8	817.0
40°	795.0	804.5	804.5	796.2	780.7
42.5°	756.8	767.0	766.7	756.5	742.5
45°	717.2	726.2	725.0	715.1	702.3
47.5°	676.4	682.1	683.6	671.9	659.7
50°	631.7	637.4	638.9	625.8	616.3
52.5°	587.7	591.2	593.3	578.1	571.3
55°	540.6	543.9	545.4	532.0	524.5
57.5°	490.9	495.0	496.8	483.4	475.1
60°	439.9	444.4	445.0	432.5	424.7
62.5°	388.1	394.1	395.2	382.7	373.5
65°	335.1	342.2	343.4	331.8	322.0
67.5°	282.1	291.6	291.9	282.4	270.7
70°	230.2	240.7	240.4	232.3	221.0
72.5°	180.8	190.3	192.4	185.0	173.9
75°	134.9	142.4	144.8	140.0	128.7
77.5°	95.9	102.8	104.8	100.4	92.0
80°	67.3	67.6	70.3	66.7	61.1
82.5°	41.7	41.1	42.0	40.5	37.2
85°	20.8	21.4	22.3	21.1	19.4
87.5°	7.1	7.4	8.0	8.0	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)