

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: P413177

Luminaire Tested: **24PD-30-PC3-L930**

Issue Date: 9/15/2020



**Test Information**

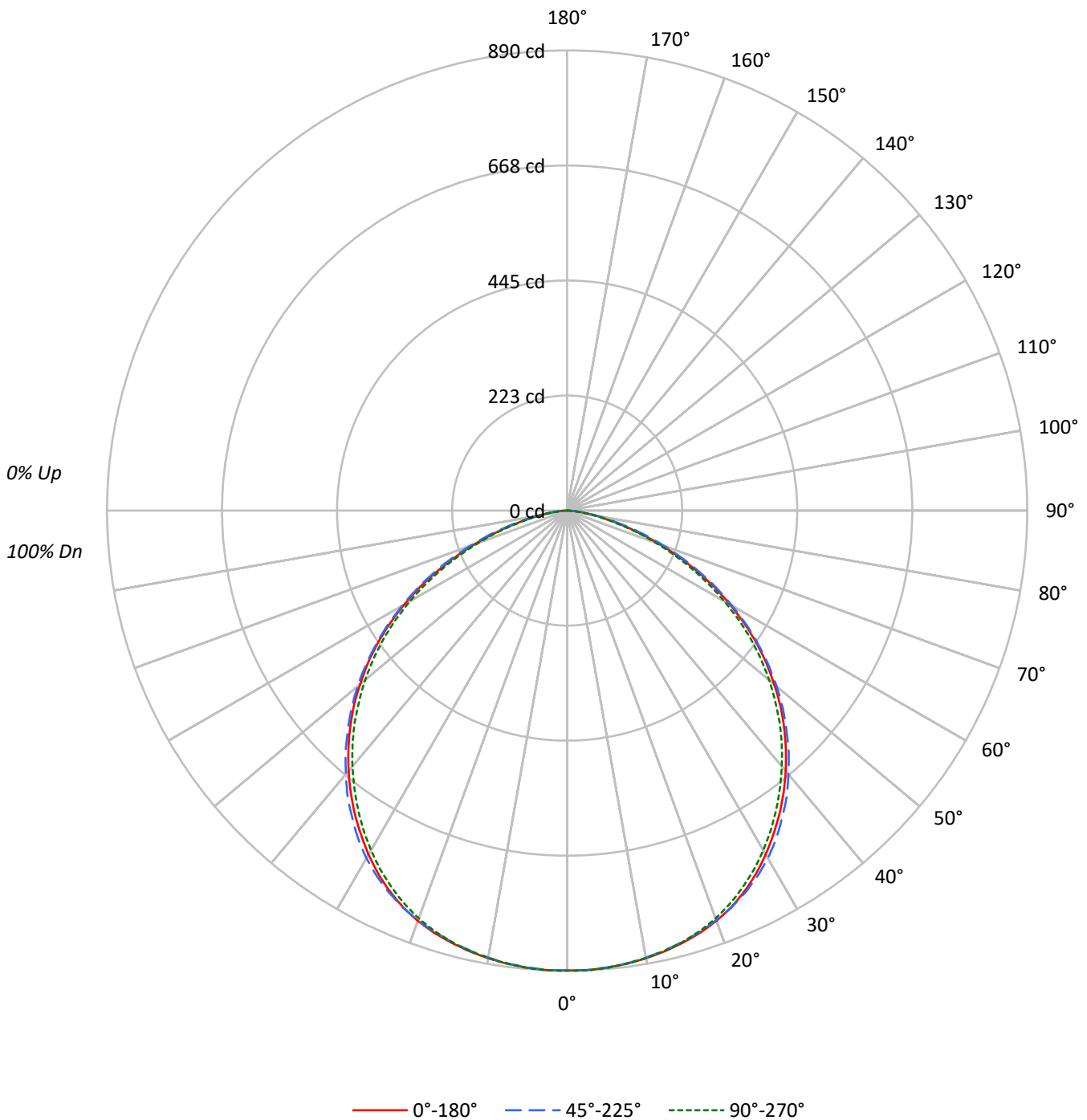
Test Method: LM-79-08  
Report Number: P413177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-30-PC3-L930  
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2432.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 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): 22  
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°	1197	1197	1197
5°	1199	1198	1199
10°	1201	1199	1201
15°	1205	1203	1203
20°	1209	1207	1202
25°	1206	1210	1193
30°	1194	1206	1179
35°	1176	1191	1158
40°	1155	1169	1135
45°	1129	1141	1106
50°	1094	1107	1067
55°	1049	1059	1018
60°	980	991	946
65°	883	905	848
70°	749	782	720
75°	581	623	554
80°	432	451	391
85°	267	286	247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	3.5
10°-20°	244.0	10.0
20°-30°	373.7	15.4
30°-40°	449.5	18.5
40°-50°	458.4	18.8
50°-60°	397.4	16.3
60°-70°	275.5	11.3
70°-80°	125.8	5.2
80°-90°	23.2	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°	702.1	28.9
0°-40°	1151.6	47.4
0°-60°	2007.4	82.5
0°-90°	2432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	888	888	887	886	888	84
15°	865	865	863	863	864	244
25°	812	814	815	808	804	374
35°	716	724	725	716	705	448
45°	594	601	600	592	581	457
55°	447	450	451	440	434	399
65°	277	283	284	275	266	274
75°	112	118	120	116	106	122
85°	17	18	18	18	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	889.7	889.7	889.7	889.7	889.7
2.5°	889.7	889.7	889.3	888.8	890.2
5°	887.5	887.5	887.0	886.5	887.8
7.5°	884.1	883.8	883.3	882.8	883.6
10°	879.2	878.9	877.9	877.7	878.7
12.5°	873.0	872.7	871.3	871.3	872.0
15°	865.1	864.9	863.4	862.6	863.6
17.5°	856.2	856.0	854.3	852.3	852.8
20°	844.4	844.4	843.2	840.2	839.5
22.5°	830.1	830.8	830.8	825.2	823.0
25°	812.1	814.3	815.1	807.9	803.7
27.5°	791.7	795.1	797.1	788.0	782.5
30°	768.2	773.9	776.4	766.5	758.6
32.5°	742.6	749.8	752.7	743.1	733.0
35°	716.0	723.6	725.1	715.7	705.1
37.5°	687.6	695.5	697.5	689.1	676.1
40°	657.8	665.7	665.7	658.8	646.0
42.5°	626.3	634.7	634.4	626.0	614.4
45°	593.5	600.9	599.9	591.8	581.2
47.5°	559.7	564.4	565.6	556.0	545.9
50°	522.8	527.4	528.7	517.8	509.9
52.5°	486.3	489.2	491.0	478.4	472.7
55°	447.3	450.1	451.3	440.2	434.0
57.5°	406.2	409.6	411.1	400.0	393.1
60°	364.0	367.7	368.2	357.9	351.5
62.5°	321.1	326.1	327.1	316.7	309.1
65°	277.3	283.2	284.2	274.6	266.4
67.5°	233.4	241.3	241.5	233.7	224.0
70°	190.5	199.1	198.9	192.2	182.9
72.5°	149.6	157.5	159.2	153.1	143.9
75°	111.7	117.8	119.8	115.8	106.5
77.5°	79.4	85.0	86.8	83.1	76.2
80°	55.7	55.9	58.2	55.2	50.5
82.5°	34.5	34.0	34.8	33.5	30.8
85°	17.3	17.7	18.5	17.5	16.0
87.5°	5.9	6.2	6.7	6.7	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)