

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: P413277

Luminaire Tested: **24PD-85-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413277
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-85-PC3-L935
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

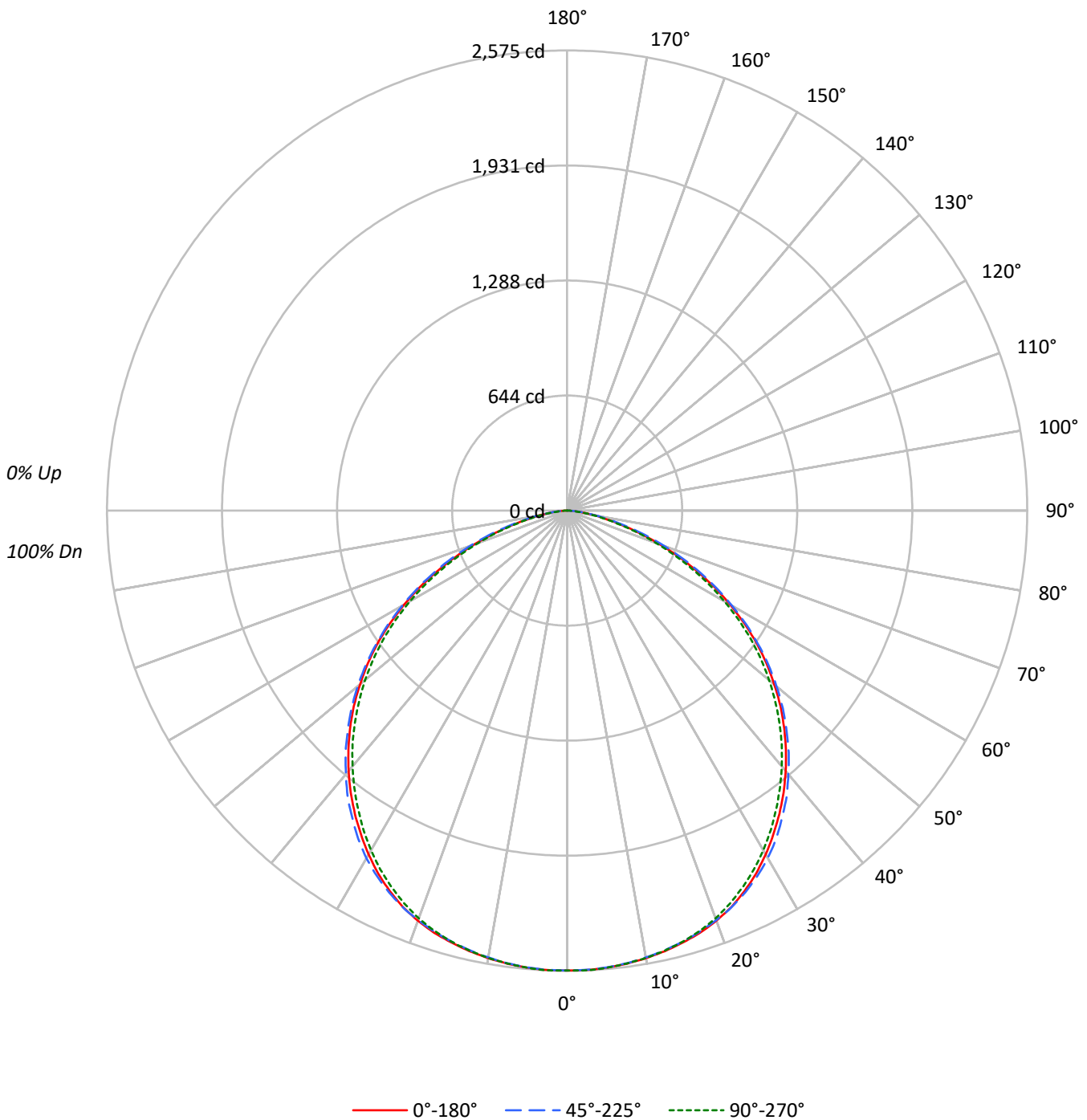
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7035.0 lumens
Efficiency: N/A
Efficacy: 109.1 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): 64.5
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°	3463	3463	3463
5°	3467	3466	3469
10°	3474	3470	3473
15°	3486	3479	3480
20°	3497	3492	3477
25°	3488	3500	3452
30°	3453	3489	3409
35°	3402	3445	3350
40°	3342	3382	3282
45°	3267	3302	3199
50°	3165	3201	3088
55°	3035	3062	2945
60°	2834	2866	2736
65°	2554	2617	2454
70°	2168	2264	2081
75°	1679	1801	1601
80°	1248	1304	1133
85°	770	826	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	3.5
10°-20°	705.8	10.0
20°-30°	1080.9	15.4
30°-40°	1300.4	18.5
40°-50°	1326.0	18.8
50°-60°	1149.6	16.3
60°-70°	797.0	11.3
70°-80°	364.0	5.2
80°-90°	67.2	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°	2030.9	28.9
0°-40°	3331.3	47.4
0°-60°	5806.8	82.5
0°-90°	7035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2567	2567	2566	2564	2568	244
15°	2502	2502	2498	2495	2498	707
25°	2349	2356	2358	2337	2325	1082
35°	2071	2093	2098	2070	2040	1295
45°	1717	1738	1735	1712	1681	1323
55°	1294	1302	1305	1273	1256	1153
65°	802	819	822	794	771	793
75°	323	341	346	335	308	353
85°	50	51	54	51	46	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.8	2573.8	2573.8	2573.8	2573.8
2.5°	2573.8	2573.8	2572.3	2570.9	2575.2
5°	2567.3	2567.3	2565.9	2564.5	2568.1
7.5°	2557.4	2556.7	2555.2	2553.8	2555.9
10°	2543.1	2542.4	2539.5	2538.8	2541.7
12.5°	2525.3	2524.6	2520.3	2520.3	2522.4
15°	2502.5	2501.8	2497.5	2495.3	2498.2
17.5°	2476.8	2476.1	2471.1	2465.4	2466.8
20°	2442.6	2442.6	2439.0	2430.5	2428.3
22.5°	2401.2	2403.4	2403.4	2387.0	2380.6
25°	2349.2	2355.6	2357.7	2337.1	2324.9
27.5°	2290.0	2300.0	2305.7	2279.3	2263.6
30°	2222.3	2238.7	2245.8	2217.3	2194.5
32.5°	2148.1	2168.8	2177.4	2149.6	2120.3
35°	2071.1	2093.2	2097.5	2070.4	2039.8
37.5°	1989.1	2012.0	2017.7	1993.4	1955.6
40°	1902.9	1925.7	1925.7	1905.7	1868.7
42.5°	1811.6	1835.9	1835.1	1810.9	1777.4
45°	1716.8	1738.2	1735.3	1711.8	1681.1
47.5°	1619.1	1632.7	1636.2	1608.4	1579.2
50°	1512.2	1525.7	1529.3	1497.9	1475.1
52.5°	1406.7	1415.2	1420.2	1383.8	1367.4
55°	1294.0	1301.9	1305.4	1273.3	1255.5
57.5°	1174.9	1184.9	1189.2	1157.1	1137.2
60°	1053.0	1063.7	1065.2	1035.2	1016.7
62.5°	929.0	943.2	946.1	916.1	894.0
65°	802.1	819.2	822.0	794.2	770.7
67.5°	675.2	698.0	698.7	675.9	648.1
70°	551.1	576.1	575.4	556.1	529.0
72.5°	432.8	455.6	460.6	442.7	416.4
75°	323.0	340.8	346.5	335.1	308.0
77.5°	229.6	246.0	251.0	240.3	220.3
80°	161.1	161.8	168.3	159.7	146.2
82.5°	99.8	98.4	100.5	97.0	89.1
85°	49.9	51.3	53.5	50.6	46.3
87.5°	17.1	17.8	19.2	19.2	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)