

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: P412936

Luminaire Tested: **24PD-85-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-85-PP3-L940
Description: 8500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

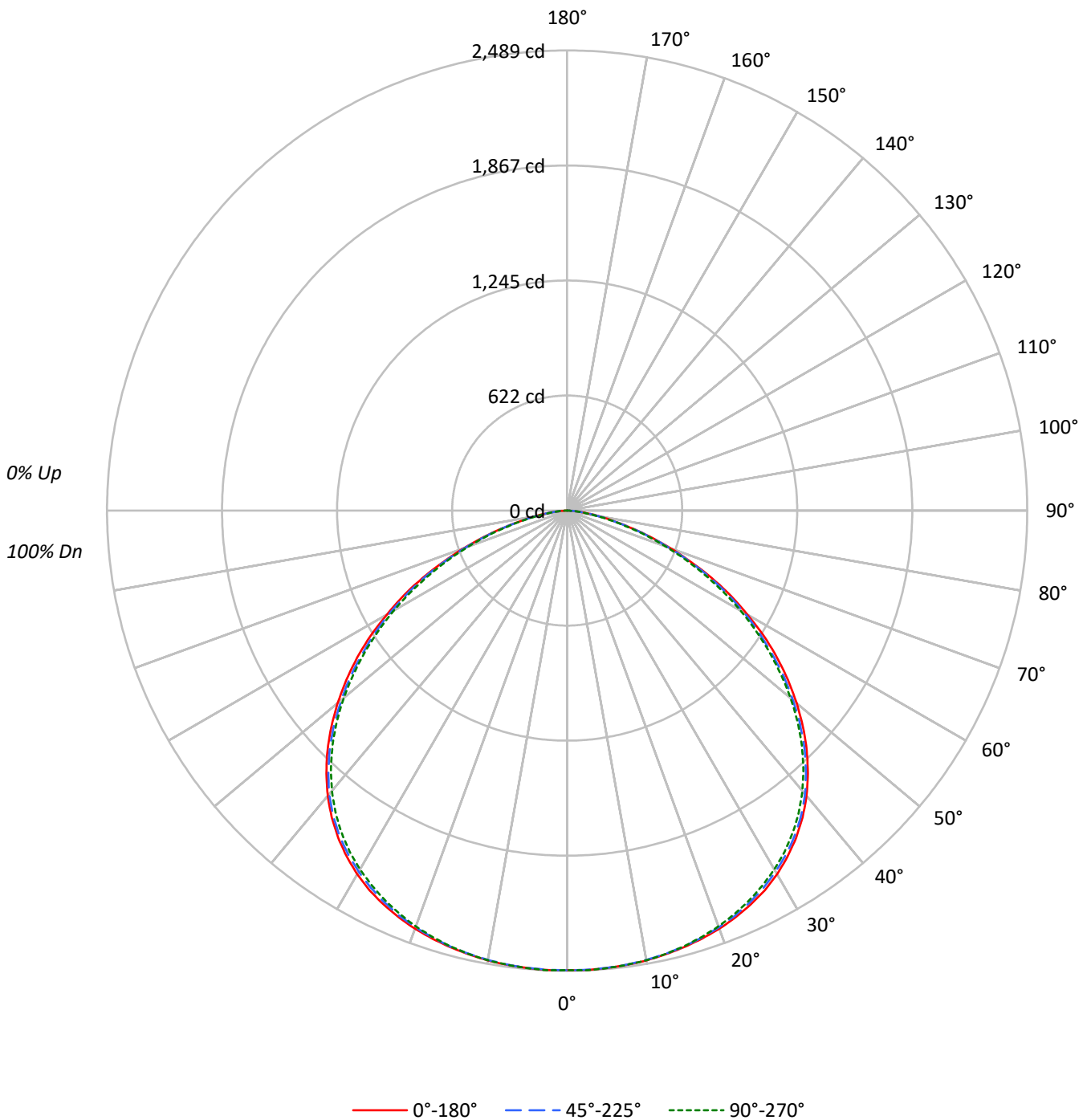
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7235.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3346	3346	3346
5°	3354	3353	3355
10°	3375	3371	3374
15°	3405	3400	3398
20°	3446	3435	3427
25°	3490	3471	3455
30°	3528	3504	3481
35°	3547	3526	3494
40°	3538	3516	3477
45°	3488	3453	3415
50°	3392	3337	3302
55°	3251	3173	3133
60°	3029	2977	2916
65°	2746	2691	2613
70°	2344	2301	2227
75°	1830	1812	1725
80°	1350	1294	1221
85°	815	815	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	3.3
10°-20°	690.3	9.5
20°-30°	1079.0	14.9
30°-40°	1340.9	18.5
40°-50°	1397.2	19.3
50°-60°	1212.4	16.8
60°-70°	833.6	11.5
70°-80°	376.2	5.2
80°-90°	68.9	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°	2005.8	27.7
0°-40°	3346.7	46.3
0°-60°	5956.2	82.3
0°-90°	7235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2484	2484	2483	2481	2484	237
15°	2444	2444	2441	2439	2440	691
25°	2350	2350	2338	2329	2327	1084
35°	2160	2160	2147	2134	2127	1350
45°	1833	1834	1815	1801	1794	1411
55°	1386	1378	1353	1337	1335	1235
65°	863	859	845	825	821	851
75°	352	354	348	339	332	383
85°	53	52	53	52	49	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2486.5	2486.5	2486.5	2486.5	2486.5
2.5°	2487.2	2487.2	2485.7	2483.6	2488.6
5°	2483.6	2484.3	2482.8	2480.7	2484.3
7.5°	2478.5	2479.2	2477.1	2474.9	2477.8
10°	2470.6	2469.8	2467.7	2466.2	2469.8
12.5°	2459.0	2458.3	2456.1	2454.6	2457.5
15°	2444.5	2444.5	2440.9	2438.7	2439.5
17.5°	2427.2	2427.2	2422.1	2417.0	2418.5
20°	2406.9	2406.2	2399.0	2393.9	2393.2
22.5°	2381.6	2381.6	2371.5	2365.0	2362.8
25°	2350.5	2349.8	2338.2	2328.8	2327.4
27.5°	2315.1	2313.7	2299.9	2290.5	2286.9
30°	2271.0	2269.6	2255.1	2245.0	2240.6
32.5°	2218.9	2221.1	2204.5	2192.9	2188.6
35°	2159.7	2159.7	2146.6	2134.3	2127.1
37.5°	2091.7	2091.7	2079.4	2067.1	2058.4
40°	2014.3	2015.1	2002.0	1986.9	1979.6
42.5°	1927.6	1929.0	1911.7	1899.4	1891.4
45°	1832.9	1833.6	1814.8	1801.0	1794.5
47.5°	1730.2	1728.7	1707.8	1696.2	1689.7
50°	1620.3	1617.4	1594.3	1583.4	1577.6
52.5°	1505.3	1499.5	1479.3	1463.4	1458.3
55°	1386.0	1378.1	1352.8	1336.9	1335.4
57.5°	1261.7	1252.3	1231.3	1216.1	1210.3
60°	1125.7	1123.6	1106.2	1088.1	1083.8
62.5°	998.5	992.0	976.8	955.1	952.9
65°	862.6	858.9	845.2	825.0	820.6
67.5°	722.3	725.9	714.3	696.3	690.5
70°	595.8	597.9	584.9	568.3	566.1
72.5°	468.5	472.1	461.3	450.4	448.3
75°	352.1	353.6	348.5	339.1	331.9
77.5°	250.2	255.2	249.4	242.9	237.1
80°	174.2	166.3	167.0	164.1	157.6
82.5°	104.8	101.2	100.5	97.6	94.7
85°	52.8	52.1	52.8	52.1	49.2
87.5°	17.4	18.8	19.5	19.5	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)