

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: P413152

Luminaire Tested: **22PD-80-PC3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-80-PC3-L940
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

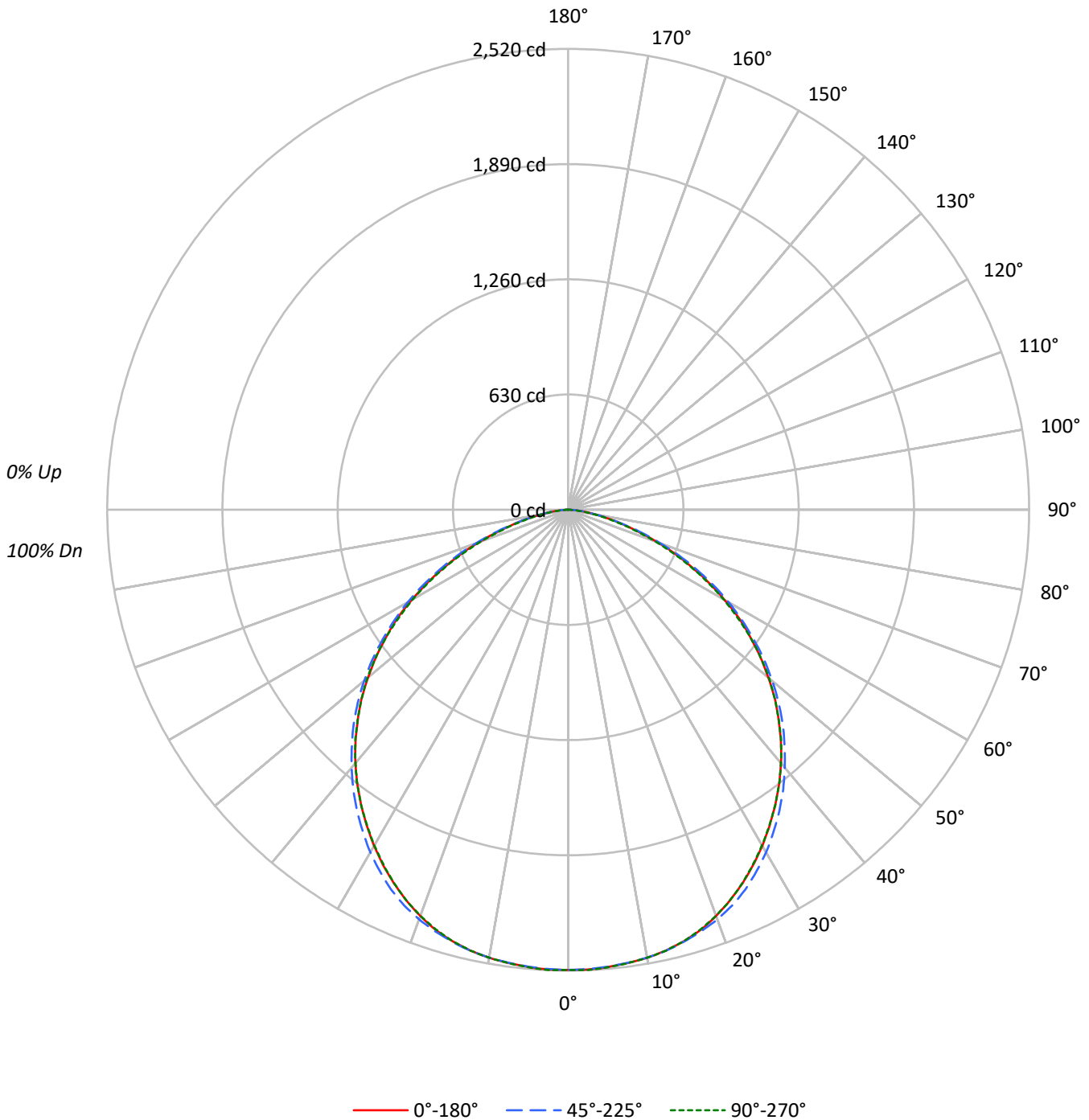
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6761.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (A_{in}): 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	110	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	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6772	6772	6772
5°	6781	6777	6785
10°	6798	6796	6798
15°	6806	6815	6804
20°	6771	6826	6767
25°	6693	6802	6688
30°	6594	6723	6584
35°	6479	6608	6479
40°	6358	6470	6358
45°	6190	6312	6199
50°	5979	6096	6002
55°	5701	5813	5701
60°	5316	5450	5282
65°	4770	4939	4709
70°	4081	4226	3961
75°	3238	3329	3071
80°	2320	2407	2208
85°	1531	1581	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.5
10°-20°	689.7	10.2
20°-30°	1046.4	15.5
30°-40°	1249.7	18.5
40°-50°	1270.9	18.8
50°-60°	1099.3	16.3
60°-70°	756.4	11.2
70°-80°	343.3	5.1
80°-90°	66.5	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°	1974.9	29.2
0°-40°	3224.6	47.7
0°-60°	5594.8	82.8
0°-90°	6761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2517	2517	2517	2517	2517	
5°	2510	2508	2509	2509	2512	239
15°	2443	2445	2446	2442	2442	689
25°	2254	2274	2291	2270	2252	1038
35°	1972	2008	2012	2004	1972	1234
45°	1627	1656	1659	1657	1629	1254
55°	1215	1236	1239	1237	1215	1086
65°	749	770	776	769	740	743
75°	311	323	320	317	295	335
85°	50	53	51	50	46	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2516.7	2516.7	2516.7	2516.7	2516.7
2.5°	2516.7	2513.5	2514.3	2515.1	2519.9
5°	2510.3	2507.9	2508.7	2508.7	2511.9
7.5°	2499.9	2499.1	2499.1	2498.3	2500.7
10°	2487.9	2486.3	2487.1	2486.3	2487.9
12.5°	2469.5	2469.5	2470.3	2467.9	2469.5
15°	2443.1	2444.7	2446.3	2442.3	2442.3
17.5°	2409.4	2413.4	2417.4	2410.2	2406.2
20°	2364.6	2374.2	2383.8	2372.6	2363.0
22.5°	2312.6	2328.6	2343.0	2325.4	2312.6
25°	2254.1	2274.2	2291.0	2270.2	2252.5
27.5°	2190.9	2213.3	2229.3	2211.7	2187.7
30°	2122.1	2149.3	2163.7	2146.9	2118.9
32.5°	2048.4	2080.4	2089.2	2078.8	2046.8
35°	1972.4	2007.6	2011.6	2004.4	1972.4
37.5°	1893.1	1926.8	1930.0	1926.0	1893.1
40°	1809.9	1841.1	1841.9	1841.9	1809.9
42.5°	1721.0	1751.4	1751.4	1750.6	1723.4
45°	1626.6	1656.2	1658.6	1657.0	1629.0
47.5°	1532.9	1555.3	1559.3	1556.1	1531.3
50°	1428.1	1451.3	1456.1	1452.9	1433.7
52.5°	1324.0	1345.6	1350.4	1348.0	1326.4
55°	1215.1	1235.9	1239.1	1236.7	1215.1
57.5°	1110.3	1123.9	1127.1	1122.3	1095.1
60°	987.8	1007.0	1012.6	1007.0	981.4
62.5°	869.3	890.1	894.9	886.9	859.7
65°	749.2	770.1	775.7	769.3	739.6
67.5°	635.6	650.8	655.6	648.4	621.2
70°	518.7	537.9	537.1	527.5	503.5
72.5°	403.4	429.9	425.1	419.5	393.0
75°	311.4	323.4	320.2	317.0	295.4
77.5°	222.5	236.9	228.9	229.7	211.3
80°	149.7	163.3	155.3	152.1	142.5
82.5°	95.3	100.9	99.3	97.7	88.9
85°	49.6	52.8	51.2	49.6	46.4
87.5°	19.2	20.8	19.2	19.2	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)