

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: P413039

Luminaire Tested: **22PD-20-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413039
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-20-PC3-L840
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

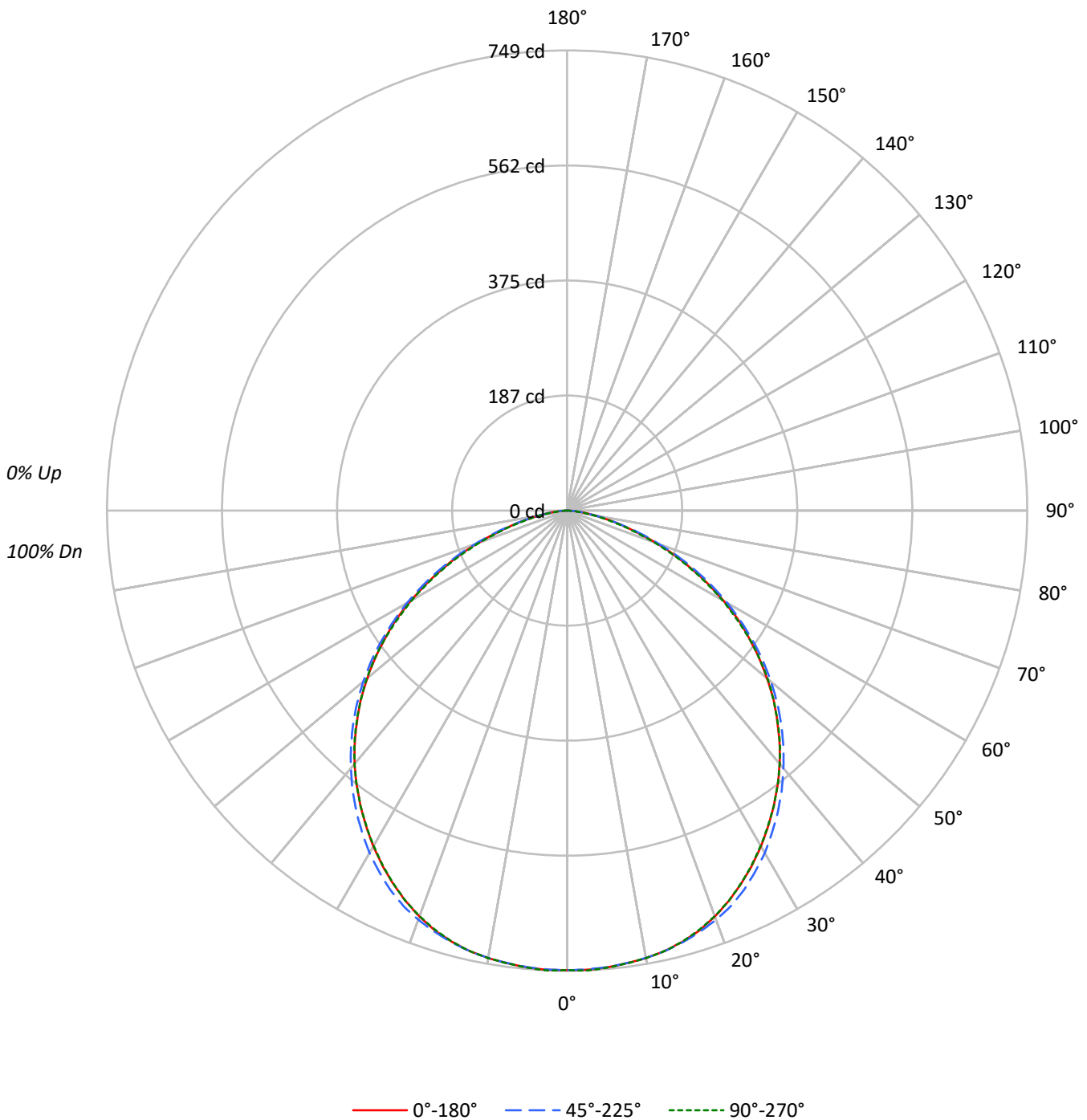
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2010.0 lumens
Efficiency: N/A
Efficacy: 118.9 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): 16.9
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	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°	2013	2013	2013
5°	2016	2015	2017
10°	2021	2020	2021
15°	2023	2026	2023
20°	2013	2029	2012
25°	1990	2022	1988
30°	1960	1999	1957
35°	1926	1964	1926
40°	1890	1924	1890
45°	1840	1877	1843
50°	1778	1812	1784
55°	1695	1728	1695
60°	1581	1620	1570
65°	1418	1468	1400
70°	1213	1257	1178
75°	963	990	913
80°	690	716	657
85°	457	469	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.5
10°-20°	205.1	10.2
20°-30°	311.1	15.5
30°-40°	371.5	18.5
40°-50°	377.8	18.8
50°-60°	326.8	16.3
60°-70°	224.9	11.2
70°-80°	102.1	5.1
80°-90°	19.8	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°	587.1	29.2
0°-40°	958.7	47.7
0°-60°	1663.3	82.8
0°-90°	2010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	746	746	746	746	747	71
15°	726	727	727	726	726	205
25°	670	676	681	675	670	309
35°	586	597	598	596	586	367
45°	484	492	493	493	484	373
55°	361	367	368	368	361	323
65°	223	229	231	229	220	221
75°	93	96	95	94	88	100
85°	15	16	15	15	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.2	748.2	748.2	748.2	748.2
2.5°	748.2	747.2	747.5	747.7	749.2
5°	746.3	745.6	745.8	745.8	746.8
7.5°	743.2	743.0	743.0	742.7	743.4
10°	739.6	739.2	739.4	739.2	739.6
12.5°	734.2	734.2	734.4	733.7	734.2
15°	726.3	726.8	727.3	726.1	726.1
17.5°	716.3	717.5	718.7	716.5	715.4
20°	703.0	705.8	708.7	705.4	702.5
22.5°	687.5	692.3	696.6	691.3	687.5
25°	670.1	676.1	681.1	674.9	669.7
27.5°	651.3	658.0	662.8	657.5	650.4
30°	630.9	639.0	643.3	638.3	629.9
32.5°	609.0	618.5	621.1	618.0	608.5
35°	586.4	596.8	598.0	595.9	586.4
37.5°	562.8	572.8	573.8	572.6	562.8
40°	538.1	547.3	547.6	547.6	538.1
42.5°	511.7	520.7	520.7	520.5	512.4
45°	483.6	492.4	493.1	492.6	484.3
47.5°	455.7	462.4	463.6	462.6	455.2
50°	424.6	431.5	432.9	431.9	426.2
52.5°	393.6	400.0	401.5	400.8	394.3
55°	361.2	367.4	368.4	367.7	361.2
57.5°	330.1	334.1	335.1	333.6	325.6
60°	293.7	299.4	301.0	299.4	291.8
62.5°	258.4	264.6	266.1	263.7	255.6
65°	222.7	228.9	230.6	228.7	219.9
67.5°	189.0	193.5	194.9	192.8	184.7
70°	154.2	159.9	159.7	156.8	149.7
72.5°	119.9	127.8	126.4	124.7	116.8
75°	92.6	96.1	95.2	94.2	87.8
77.5°	66.2	70.4	68.1	68.3	62.8
80°	44.5	48.5	46.2	45.2	42.4
82.5°	28.3	30.0	29.5	29.0	26.4
85°	14.8	15.7	15.2	14.8	13.8
87.5°	5.7	6.2	5.7	5.7	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)