

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: P413040

Luminaire Tested: **22PD-20-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413040
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-L850
Description: 2000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

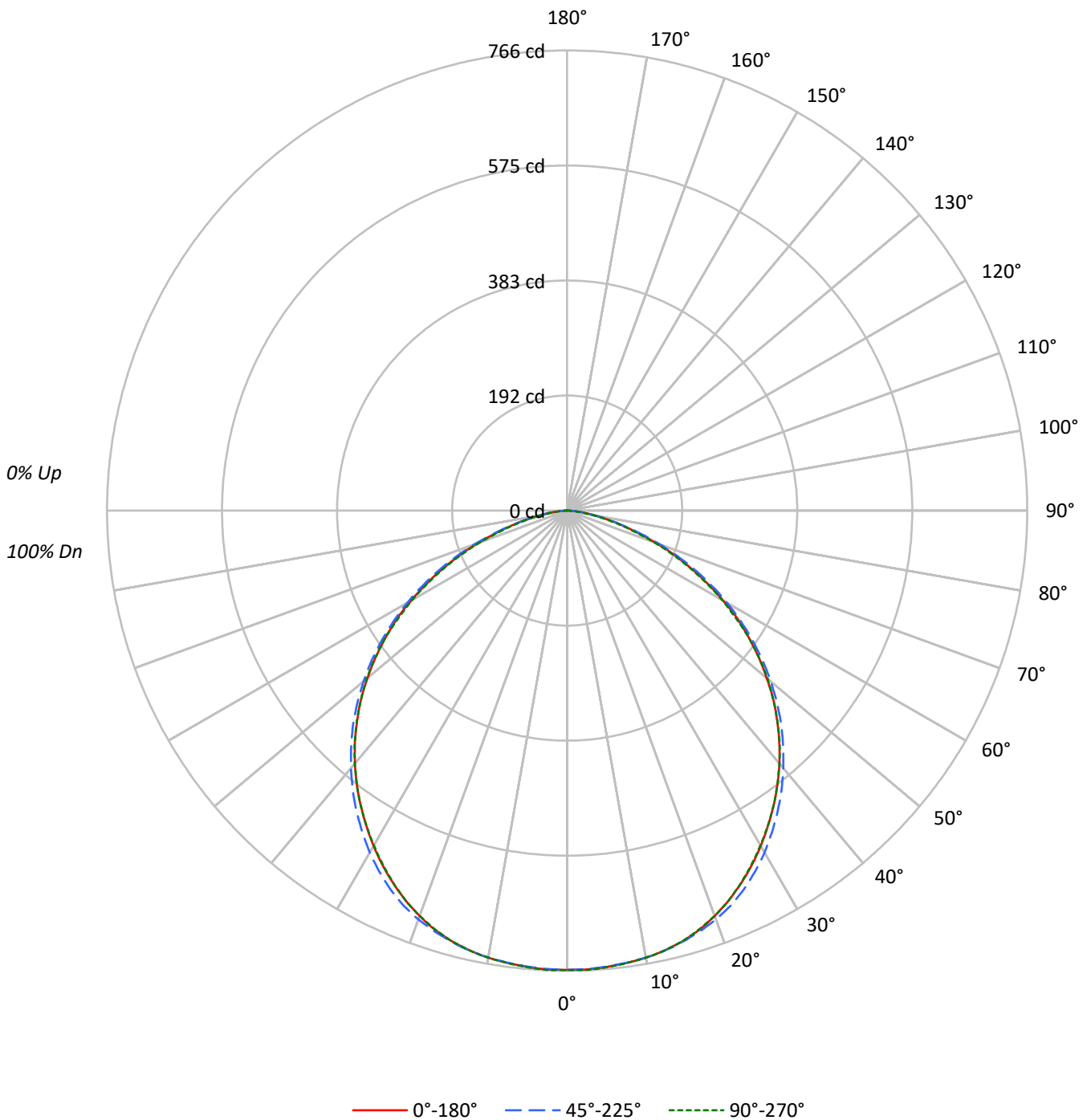
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2054.0 lumens
Efficiency: N/A
Efficacy: 121.5 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°	2058	2058	2058
5°	2060	2059	2061
10°	2065	2065	2065
15°	2068	2070	2067
20°	2057	2074	2056
25°	2033	2067	2032
30°	2003	2042	2000
35°	1968	2008	1968
40°	1931	1966	1931
45°	1881	1918	1883
50°	1816	1852	1823
55°	1732	1766	1732
60°	1615	1655	1604
65°	1449	1500	1431
70°	1240	1284	1204
75°	984	1012	933
80°	705	731	671
85°	466	482	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.5
10°-20°	209.5	10.2
20°-30°	317.9	15.5
30°-40°	379.6	18.5
40°-50°	386.1	18.8
50°-60°	334.0	16.3
60°-70°	229.8	11.2
70°-80°	104.3	5.1
80°-90°	20.2	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°	600.0	29.2
0°-40°	979.6	47.7
0°-60°	1699.7	82.8
0°-90°	2054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	763	762	762	762	763	73
15°	742	743	743	742	742	209
25°	685	691	696	690	684	315
35°	599	610	611	609	599	375
45°	494	503	504	503	495	381
55°	369	376	376	376	369	330
65°	228	234	236	234	225	226
75°	95	98	97	96	90	102
85°	15	16	16	15	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.6	764.6	764.6	764.6	764.6
2.5°	764.6	763.6	763.8	764.1	765.6
5°	762.6	761.9	762.1	762.1	763.1
7.5°	759.5	759.2	759.2	759.0	759.7
10°	755.8	755.3	755.6	755.3	755.8
12.5°	750.2	750.2	750.5	749.7	750.2
15°	742.2	742.7	743.2	742.0	742.0
17.5°	732.0	733.2	734.4	732.2	731.0
20°	718.4	721.3	724.2	720.8	717.9
22.5°	702.6	707.4	711.8	706.5	702.6
25°	684.8	690.9	696.0	689.7	684.3
27.5°	665.6	672.4	677.3	671.9	664.6
30°	644.7	653.0	657.3	652.2	643.7
32.5°	622.3	632.0	634.7	631.6	621.8
35°	599.2	609.9	611.1	608.9	599.2
37.5°	575.1	585.3	586.3	585.1	575.1
40°	549.8	559.3	559.6	559.6	549.8
42.5°	522.9	532.1	532.1	531.8	523.6
45°	494.2	503.2	503.9	503.4	494.9
47.5°	465.7	472.5	473.7	472.8	465.2
50°	433.8	440.9	442.4	441.4	435.5
52.5°	402.2	408.8	410.3	409.5	403.0
55°	369.2	375.5	376.5	375.7	369.2
57.5°	337.3	341.4	342.4	340.9	332.7
60°	300.1	305.9	307.6	305.9	298.1
62.5°	264.1	270.4	271.9	269.5	261.2
65°	227.6	233.9	235.6	233.7	224.7
67.5°	193.1	197.7	199.2	197.0	188.7
70°	157.6	163.4	163.2	160.3	153.0
72.5°	122.6	130.6	129.1	127.4	119.4
75°	94.6	98.2	97.3	96.3	89.7
77.5°	67.6	72.0	69.6	69.8	64.2
80°	45.5	49.6	47.2	46.2	43.3
82.5°	28.9	30.6	30.2	29.7	27.0
85°	15.1	16.1	15.6	15.1	14.1
87.5°	5.8	6.3	5.8	5.8	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)