

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: P413172

Luminaire Tested: **24PD-30-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413172
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-30-PC3-L830
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

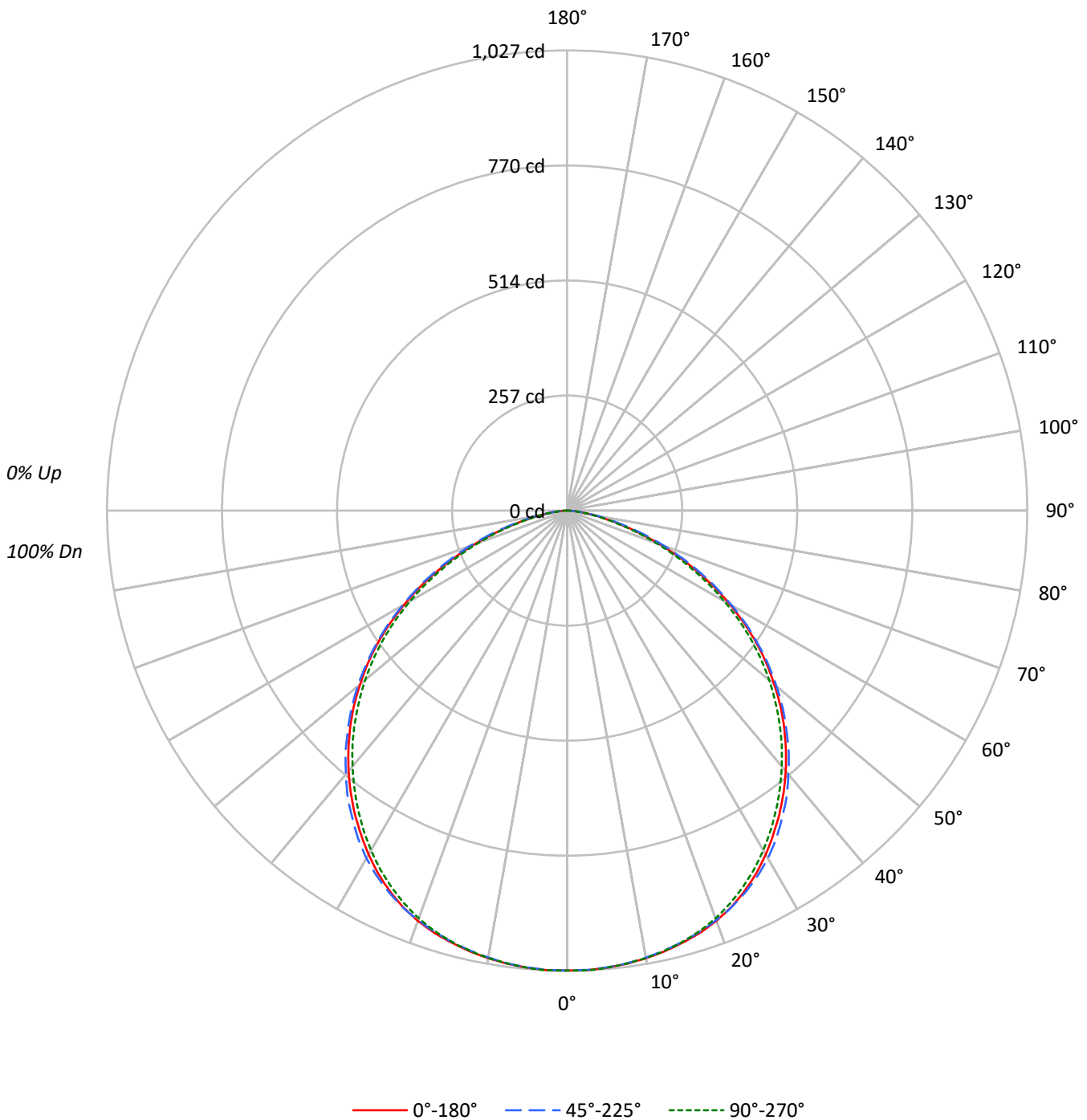
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2806.0 lumens
Efficiency: N/A
Efficacy: 127.5 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): 22
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°	1381	1381	1381
5°	1383	1382	1383
10°	1386	1384	1385
15°	1390	1388	1388
20°	1395	1393	1387
25°	1391	1396	1377
30°	1377	1392	1360
35°	1357	1374	1336
40°	1333	1349	1309
45°	1303	1317	1276
50°	1263	1277	1232
55°	1211	1221	1175
60°	1130	1143	1091
65°	1018	1044	979
70°	865	903	830
75°	670	718	638
80°	498	520	452
85°	307	329	286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.5
10°-20°	281.5	10.0
20°-30°	431.1	15.4
30°-40°	518.7	18.5
40°-50°	528.9	18.8
50°-60°	458.5	16.3
60°-70°	317.9	11.3
70°-80°	145.2	5.2
80°-90°	26.8	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°	810.1	28.9
0°-40°	1328.7	47.4
0°-60°	2316.1	82.5
0°-90°	2806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1024	1024	1024	1023	1024	97
15°	998	998	996	995	996	282
25°	937	940	940	932	927	431
35°	826	835	837	826	814	517
45°	685	693	692	683	670	528
55°	516	519	521	508	501	460
65°	320	327	328	317	307	316
75°	129	136	138	134	123	141
85°	20	20	21	20	18	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.6	1026.6	1026.6	1026.6	1026.6
2.5°	1026.6	1026.6	1026.0	1025.4	1027.1
5°	1024.0	1024.0	1023.5	1022.9	1024.3
7.5°	1020.0	1019.8	1019.2	1018.6	1019.5
10°	1014.4	1014.1	1012.9	1012.6	1013.8
12.5°	1007.2	1007.0	1005.3	1005.3	1006.1
15°	998.1	997.9	996.2	995.3	996.4
17.5°	987.9	987.6	985.6	983.4	983.9
20°	974.3	974.3	972.8	969.4	968.6
22.5°	957.8	958.6	958.6	952.1	949.5
25°	937.0	939.6	940.4	932.2	927.3
27.5°	913.4	917.4	919.7	909.1	902.9
30°	886.4	892.9	895.8	884.4	875.3
32.5°	856.8	865.1	868.5	857.4	845.7
35°	826.1	834.9	836.6	825.8	813.6
37.5°	793.4	802.5	804.8	795.1	780.0
40°	759.0	768.1	768.1	760.1	745.3
42.5°	722.6	732.3	732.0	722.3	708.9
45°	684.8	693.3	692.2	682.8	670.5
47.5°	645.8	651.2	652.6	641.5	629.9
50°	603.2	608.6	610.0	597.5	588.4
52.5°	561.1	564.5	566.5	552.0	545.4
55°	516.1	519.3	520.7	507.9	500.8
57.5°	468.6	472.6	474.3	461.5	453.6
60°	420.0	424.3	424.8	412.9	405.5
62.5°	370.5	376.2	377.4	365.4	356.6
65°	319.9	326.7	327.9	316.8	307.4
67.5°	269.3	278.4	278.7	269.6	258.5
70°	219.8	229.8	229.5	221.8	211.0
72.5°	172.6	181.7	183.7	176.6	166.1
75°	128.8	135.9	138.2	133.7	122.8
77.5°	91.6	98.1	100.1	95.8	87.9
80°	64.3	64.6	67.1	63.7	58.3
82.5°	39.8	39.2	40.1	38.7	35.5
85°	19.9	20.5	21.3	20.2	18.5
87.5°	6.8	7.1	7.7	7.7	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)