

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: P412855

Luminaire Tested: **24PD-40-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412855
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-40-PP3-L940
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

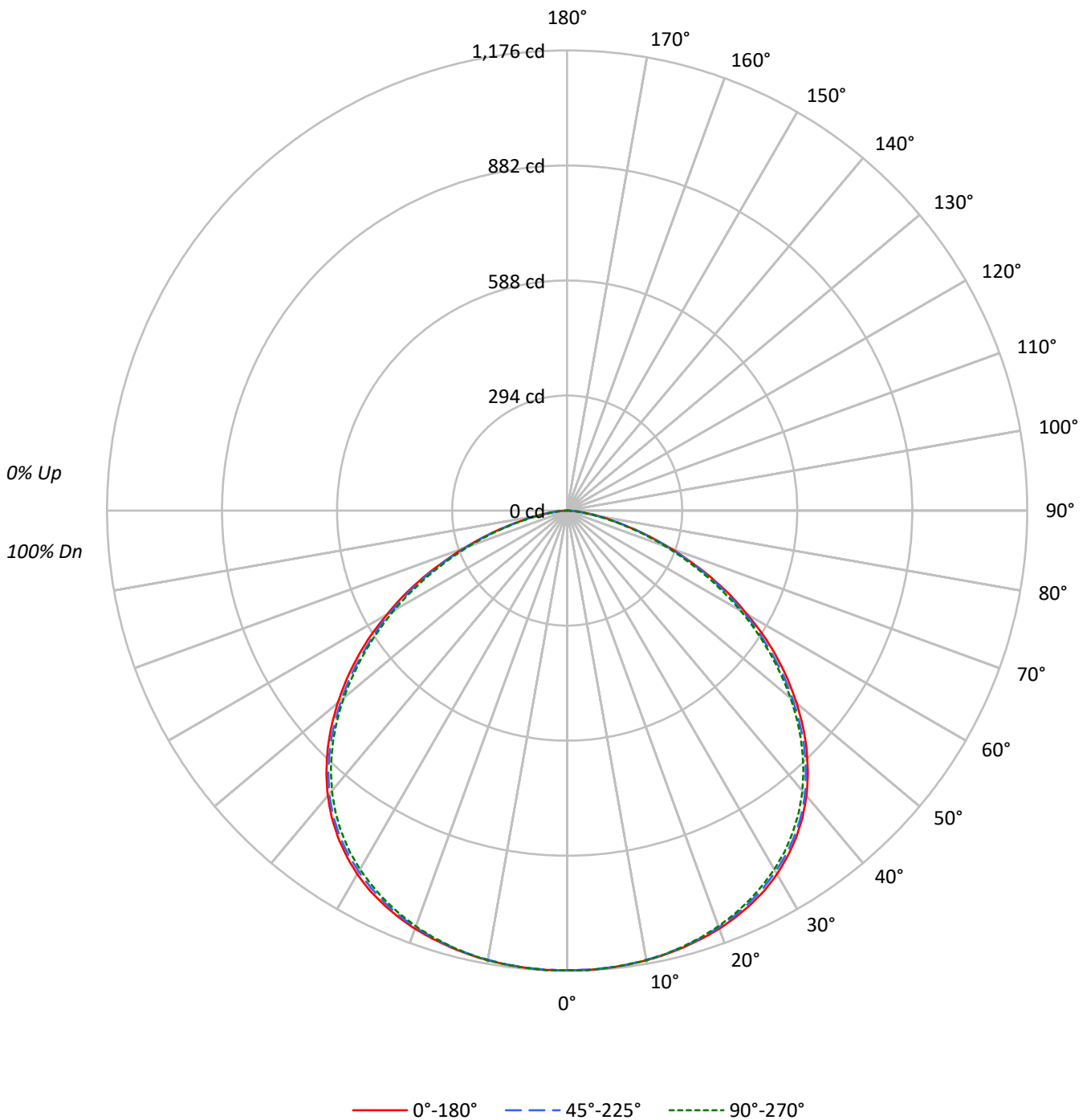
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3418.0 lumens
Efficiency: N/A
Efficacy: 115.1 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): 29.7
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

TEST NUMBER: P412855
CATALOG NUMBER: 24PD-40-PP3-L940

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°	1581	1581	1581
5°	1585	1584	1585
10°	1595	1593	1594
15°	1609	1606	1605
20°	1628	1623	1619
25°	1649	1640	1632
30°	1667	1655	1645
35°	1676	1666	1651
40°	1671	1661	1643
45°	1648	1631	1613
50°	1602	1577	1560
55°	1536	1499	1480
60°	1431	1406	1378
65°	1297	1271	1234
70°	1107	1087	1052
75°	865	856	815
80°	638	611	577
85°	384	384	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	326.1	9.5
20°-30°	509.7	14.9
30°-40°	633.5	18.5
40°-50°	660.0	19.3
50°-60°	572.7	16.8
60°-70°	393.8	11.5
70°-80°	177.7	5.2
80°-90°	32.6	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°	947.6	27.7
0°-40°	1581.1	46.3
0°-60°	2813.9	82.3
0°-90°	3418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1173	1174	1173	1172	1174	112
15°	1155	1155	1153	1152	1152	327
25°	1110	1110	1105	1100	1100	512
35°	1020	1020	1014	1008	1005	638
45°	866	866	857	851	848	666
55°	655	651	639	632	631	584
65°	408	406	399	390	388	402
75°	166	167	165	160	157	181
85°	25	25	25	25	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.7	1174.7	1174.7	1174.7	1174.7
2.5°	1175.0	1175.0	1174.3	1173.3	1175.7
5°	1173.3	1173.6	1173.0	1171.9	1173.6
7.5°	1170.9	1171.3	1170.2	1169.2	1170.6
10°	1167.2	1166.8	1165.8	1165.1	1166.8
12.5°	1161.7	1161.3	1160.3	1159.6	1161.0
15°	1154.9	1154.9	1153.1	1152.1	1152.5
17.5°	1146.7	1146.7	1144.3	1141.9	1142.6
20°	1137.1	1136.8	1133.3	1130.9	1130.6
22.5°	1125.1	1125.1	1120.4	1117.3	1116.3
25°	1110.5	1110.1	1104.6	1100.2	1099.5
27.5°	1093.7	1093.0	1086.5	1082.1	1080.4
30°	1072.9	1072.2	1065.4	1060.6	1058.5
32.5°	1048.3	1049.3	1041.5	1036.0	1033.9
35°	1020.3	1020.3	1014.1	1008.3	1004.9
37.5°	988.2	988.2	982.4	976.6	972.5
40°	951.6	952.0	945.8	938.6	935.2
42.5°	910.6	911.3	903.1	897.3	893.6
45°	865.9	866.2	857.3	850.9	847.8
47.5°	817.4	816.7	806.8	801.3	798.3
50°	765.5	764.1	753.2	748.0	745.3
52.5°	711.2	708.4	698.9	691.3	689.0
55°	654.8	651.0	639.1	631.6	630.9
57.5°	596.0	591.6	581.7	574.5	571.8
60°	531.8	530.8	522.6	514.1	512.0
62.5°	471.7	468.6	461.5	451.2	450.2
65°	407.5	405.8	399.3	389.7	387.7
67.5°	341.2	342.9	337.5	328.9	326.2
70°	281.5	282.5	276.3	268.5	267.5
72.5°	221.3	223.0	217.9	212.8	211.8
75°	166.3	167.0	164.6	160.2	156.8
77.5°	118.2	120.6	117.8	114.8	112.0
80°	82.3	78.6	78.9	77.5	74.5
82.5°	49.5	47.8	47.5	46.1	44.7
85°	24.9	24.6	24.9	24.6	23.2
87.5°	8.2	8.9	9.2	9.2	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)