

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: P284412

Luminaire Tested: **14FP3040HE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-913-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14FP3040HE
Description: 1x4 25W 4000K HE 80CRI

Light Source: -
Ballast/Driver: -

Summary

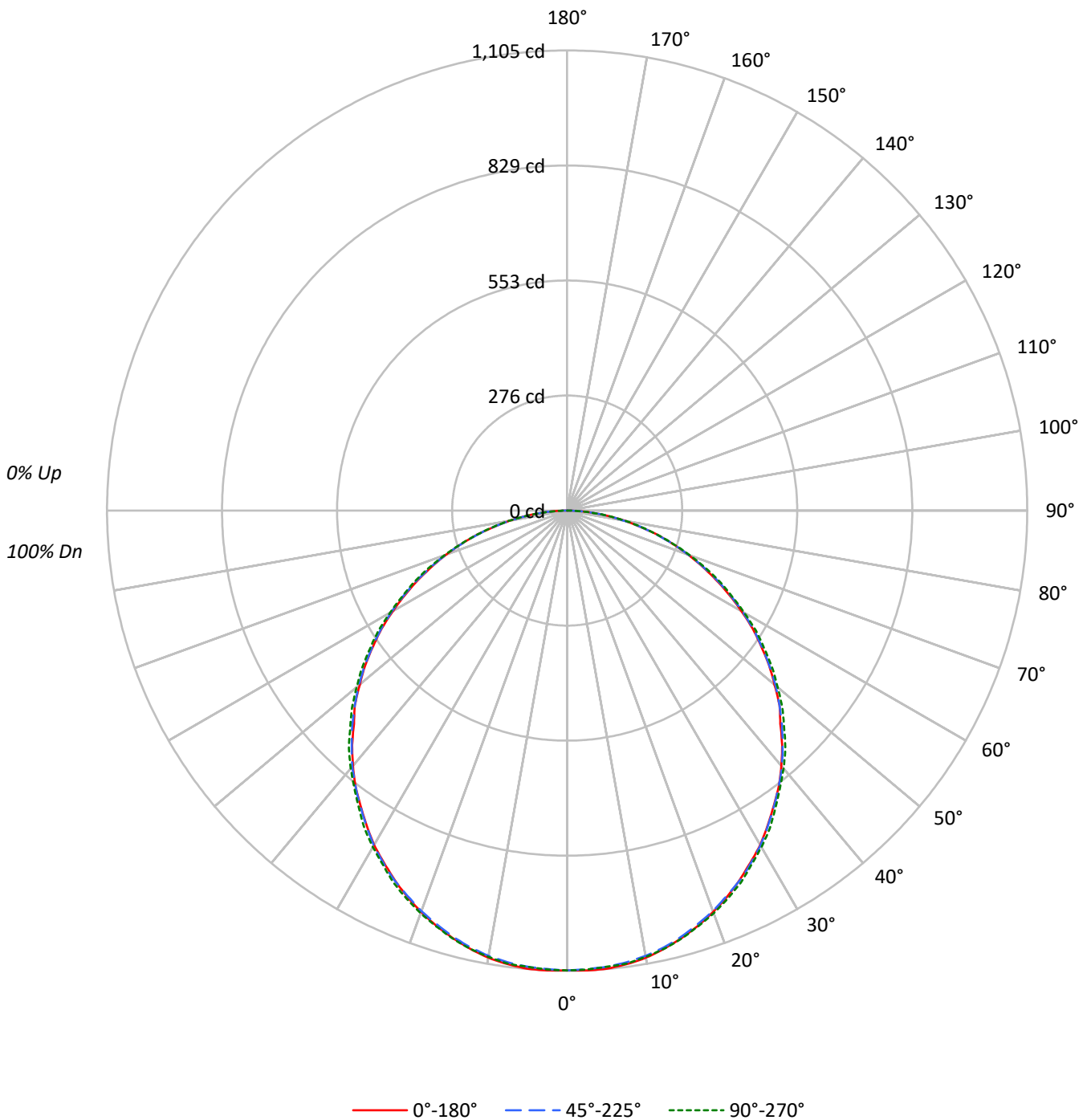
Lumens per Lamp: N/A
Luminaire Lumens: 3176.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2972	2972	2972
5°	2983	2970	2970
10°	2980	2967	2973
15°	2960	2951	2964
20°	2937	2930	2947
25°	2908	2911	2928
30°	2882	2885	2899
35°	2841	2845	2864
40°	2811	2819	2839
45°	2755	2777	2803
50°	2720	2735	2764
55°	2669	2680	2713
60°	2601	2620	2645
65°	2518	2540	2577
70°	2429	2438	2466
75°	2332	2308	2332
80°	2168	2132	2204
85°	1893	1927	1893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.3
10°-20°	299.3	9.4
20°-30°	452.0	14.2
30°-40°	543.5	17.1
40°-50°	563.8	17.8
50°-60°	511.8	16.1
60°-70°	394.9	12.4
70°-80°	235.8	7.4
80°-90°	70.1	2.2
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°	856.0	27.0
0°-40°	1399.5	44.1
0°-60°	2475.1	77.9
0°-90°	3176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1104	1101	1100	1100	1100	105
15°	1063	1062	1059	1060	1064	300
25°	979	979	980	982	986	451
35°	865	868	866	868	872	542
45°	724	728	730	733	737	561
55°	569	571	571	575	578	509
65°	396	398	399	401	405	392
75°	224	222	222	223	224	236
85°	61	62	62	61	61	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.3	1104.3	1104.3	1104.3	1104.3
2.5°	1105.4	1105.4	1102.0	1103.1	1103.1
5°	1104.3	1100.8	1099.6	1099.6	1099.6
7.5°	1098.5	1095.0	1093.9	1095.0	1097.3
10°	1090.4	1085.8	1085.8	1085.8	1088.1
12.5°	1077.7	1075.4	1074.2	1073.0	1077.7
15°	1062.6	1061.5	1059.2	1060.3	1063.8
17.5°	1045.3	1043.0	1041.8	1045.3	1046.5
20°	1025.6	1023.3	1023.3	1026.8	1029.1
22.5°	1003.7	1003.7	1001.4	1004.8	1008.3
25°	979.4	979.4	980.5	981.7	986.3
27.5°	952.8	953.9	955.1	957.4	958.6
30°	927.4	926.2	928.5	930.8	933.1
32.5°	896.1	898.4	897.3	903.1	905.4
35°	864.9	868.4	866.1	868.4	871.9
37.5°	834.9	836.0	834.9	839.5	839.5
40°	800.2	800.2	802.5	805.9	808.3
42.5°	764.3	765.5	765.5	770.1	775.9
45°	723.8	728.5	729.6	733.1	736.6
47.5°	691.5	690.3	691.5	694.9	700.7
50°	649.8	652.2	653.3	656.8	660.2
52.5°	611.7	612.8	612.8	616.3	620.9
55°	568.9	571.2	571.2	574.7	578.2
57.5°	528.4	527.3	529.6	533.1	537.7
60°	483.3	483.3	486.8	489.1	491.4
62.5°	439.4	440.6	442.9	446.3	446.3
65°	395.5	397.8	398.9	401.2	404.7
67.5°	351.5	352.7	353.8	356.1	359.6
70°	308.7	308.7	309.9	312.2	313.4
72.5°	265.9	264.8	264.8	269.4	268.3
75°	224.3	222.0	222.0	223.2	224.3
77.5°	179.2	178.1	180.4	181.5	181.5
80°	139.9	138.8	137.6	138.8	142.2
82.5°	99.4	99.4	98.3	99.4	99.4
85°	61.3	62.4	62.4	61.3	61.3
87.5°	28.9	27.8	27.8	26.6	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)