

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: P284413

Luminaire Tested: **22FP2535HE**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P284413  
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: 22FP2535HE  
Description: 2x2 20W 3500K HE 80CRI

Light Source: -  
Ballast/Driver: -

**Summary**

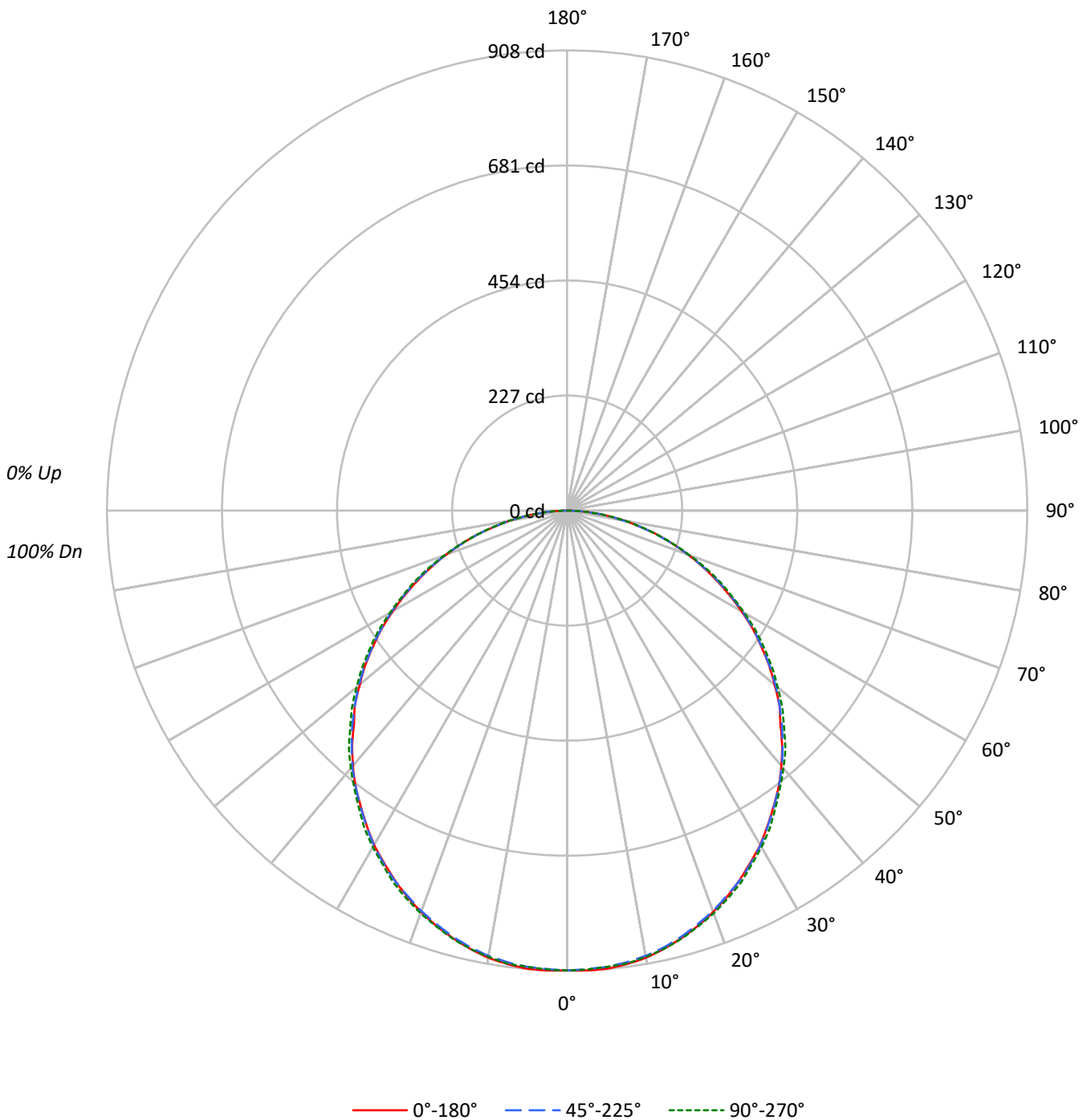
Lumens per Lamp: N/A  
Luminaire Lumens: 2609.7 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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	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°	2442	2442	2442
5°	2451	2441	2441
10°	2448	2438	2443
15°	2433	2425	2435
20°	2414	2408	2422
25°	2390	2392	2407
30°	2368	2371	2383
35°	2335	2338	2353
40°	2310	2316	2333
45°	2264	2281	2303
50°	2236	2247	2271
55°	2193	2202	2229
60°	2138	2153	2173
65°	2069	2087	2117
70°	1996	2003	2026
75°	1916	1896	1916
80°	1782	1753	1812
85°	1556	1584	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.3
10°-20°	245.9	9.4
20°-30°	371.4	14.2
30°-40°	446.6	17.1
40°-50°	463.3	17.8
50°-60°	420.6	16.1
60°-70°	324.5	12.4
70°-80°	193.8	7.4
80°-90°	57.7	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°	703.4	27.0
0°-40°	1150.0	44.1
0°-60°	2033.8	77.9
0°-90°	2609.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	907	904	904	904	904	86
15°	873	872	870	871	874	246
25°	805	805	806	807	810	371
35°	711	714	712	714	716	445
45°	595	599	600	602	605	461
55°	468	469	469	472	475	418
65°	325	327	328	330	332	322
75°	184	182	182	183	184	194
85°	50	51	51	50	50	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	907.4	907.4	907.4	907.4	907.4
2.5°	908.3	908.3	905.5	906.4	906.4
5°	907.4	904.5	903.6	903.6	903.6
7.5°	902.6	899.8	898.8	899.8	901.7
10°	896.0	892.2	892.2	892.2	894.1
12.5°	885.5	883.6	882.7	881.7	885.5
15°	873.2	872.2	870.3	871.3	874.1
17.5°	858.9	857.0	856.1	858.9	859.9
20°	842.8	840.9	840.9	843.7	845.6
22.5°	824.7	824.7	822.8	825.7	828.5
25°	804.8	804.8	805.7	806.7	810.5
27.5°	782.9	783.9	784.8	786.7	787.7
30°	762.0	761.1	763.0	764.9	766.8
32.5°	736.3	738.2	737.3	742.0	743.9
35°	710.7	713.5	711.6	713.5	716.4
37.5°	686.0	686.9	686.0	689.8	689.8
40°	657.5	657.5	659.4	662.2	664.1
42.5°	628.0	629.0	629.0	632.8	637.5
45°	594.8	598.6	599.5	602.4	605.2
47.5°	568.2	567.2	568.2	571.0	575.8
50°	534.0	535.9	536.8	539.7	542.5
52.5°	502.6	503.6	503.6	506.4	510.2
55°	467.5	469.4	469.4	472.2	475.1
57.5°	434.2	433.3	435.2	438.0	441.8
60°	397.2	397.2	400.0	401.9	403.8
62.5°	361.0	362.0	363.9	366.7	366.7
65°	324.9	326.8	327.8	329.7	332.5
67.5°	288.8	289.8	290.7	292.6	295.5
70°	253.7	253.7	254.6	256.5	257.5
72.5°	218.5	217.6	217.6	221.4	220.4
75°	184.3	182.4	182.4	183.4	184.3
77.5°	147.3	146.3	148.2	149.2	149.2
80°	115.0	114.0	113.1	114.0	116.9
82.5°	81.7	81.7	80.8	81.7	81.7
85°	50.4	51.3	51.3	50.4	50.4
87.5°	23.8	22.8	22.8	21.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)