

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: FAIL-SAFE

Report Number: 7298.0

Luminaire Tested: **MPR (340BX EXAM LIGHT)**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: 7298.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: MPR (340BX EXAM LIGHT)  
Description: FAIL-SAFE MPR 340BK3 (WAS NEO-RAY 3PR)  
Light Source: 3/40W BIAX 3100 LUMENS  
F40BX/SPX35  
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

**Summary**

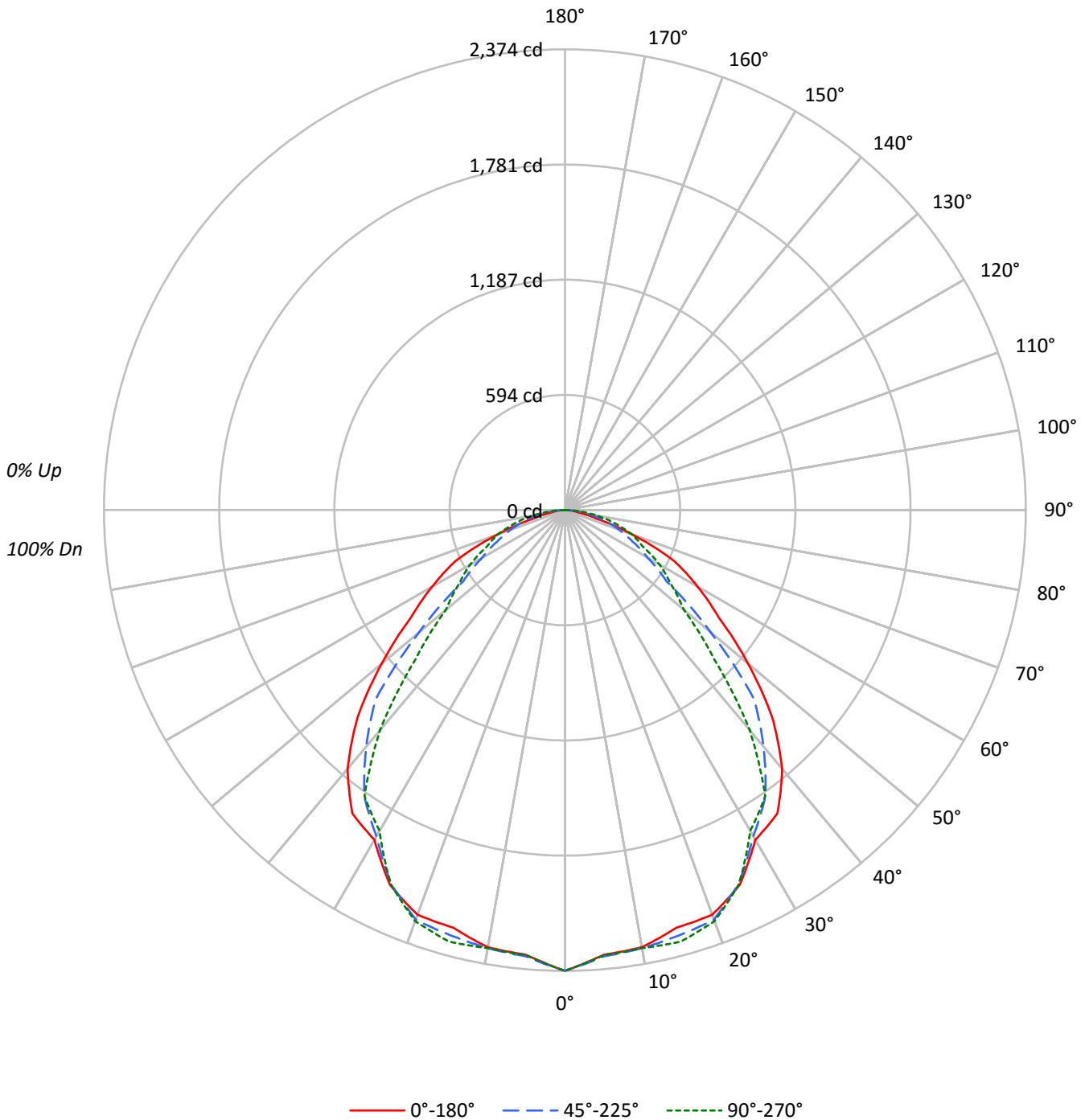
Lumens per Lamp: 3100 (3 lamps)  
Luminaire Lumens: 5376.0 lumens  
Efficiency: 57.8%  
Efficacy: 28.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 1.83' x L: 1.45' x H: 0')  
CIE Type: Direct

Input Watts (W): 192  
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	69	69	69	69	67	67	67	67	64	64	64	61	61	61	59	59	59	58
1	64	61	59	57	62	60	58	56	57	56	54	55	54	53	53	52	51	50
2	59	54	51	48	57	53	50	47	51	48	46	49	47	45	48	46	44	43
3	54	48	44	41	52	47	43	40	46	42	40	44	41	39	43	40	38	37
4	50	43	39	35	48	43	38	35	41	37	34	40	37	34	39	36	34	32
5	46	39	34	31	45	38	34	31	37	33	30	36	33	30	35	32	30	28
6	43	35	31	27	42	35	30	27	34	30	27	33	29	27	32	29	26	25
7	40	32	28	24	39	32	27	24	31	27	24	30	27	24	29	26	24	23
8	37	30	25	22	36	29	25	22	29	25	22	28	24	22	27	24	21	20
9	35	27	23	20	34	27	23	20	26	22	20	26	22	20	25	22	19	18
10	33	25	21	18	32	25	21	18	24	21	18	24	20	18	23	20	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9630	9630	9630
5°	9366	9398	9374
10°	9420	9441	9441
15°	9352	9529	9667
20°	9579	9696	9730
25°	9538	9489	9507
30°	9190	9092	8942
35°	9453	8919	8909
40°	9219	8430	7842
45°	8668	7905	6247
50°	7769	6197	5049
55°	6860	4519	4724
60°	6401	4008	4584
65°	5970	3705	4252
70°	4424	3523	4353
75°	2602	3370	4232
80°	1682	3200	3971
85°	1396	2839	3723



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	220.3	4.1	2.4	0°	2374	2374	2374	2374	2374	
10°-20°	641.1	11.9	6.9	5°	2300	2296	2308	2314	2302	220
20°-30°	970.5	18.1	10.4	15°	2227	2234	2269	2267	2302	634
30°-40°	1123.3	20.9	12.1	25°	2131	2115	2120	2110	2124	974
40°-50°	1005.0	18.7	10.8	35°	1909	1861	1801	1781	1799	1179
50°-60°	683.5	12.7	7.3	45°	1511	1403	1378	1190	1089	1156
60°-70°	437.4	8.1	4.7	55°	970	896	639	641	668	885
70°-80°	229.6	4.3	2.5	65°	622	400	386	435	443	595
80°-90°	65.3	1.2	0.7	75°	166	171	215	247	270	205
90°-100°	0.0	0.0	0.0	85°	30	39	61	71	80	36
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1831.9	34.1	19.7							
0°-40°	2955.3	55.0	31.8							
0°-60°	4643.7	86.4	49.9							
0°-90°	5376.0	100.0	57.8							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	5376.0	100.0	57.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2374	2374	2374	2374	2374
5°	2300	2296	2308	2314	2302
10°	2287	2277	2292	2298	2292
15°	2227	2234	2269	2267	2302
20°	2219	2269	2246	2239	2254
25°	2131	2115	2120	2110	2124
30°	1962	1947	1941	1907	1909
35°	1909	1861	1801	1781	1799
40°	1741	1649	1592	1519	1481
45°	1511	1403	1378	1190	1089
50°	1231	1162	982	796	800
55°	970	896	639	641	668
60°	789	573	494	550	565
65°	622	400	386	435	443
70°	373	274	297	330	367
75°	166	171	215	247	270
80°	72	92	137	158	170
85°	30	39	61	71	80
90°	0	0	0	0	0

(END OF REPORT)