



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

## Photometric Indoor Test Report

Prepared For  
Signtex Lighting Inc.  
Pam Robey  
220 VFW Avenue  
Gransonville, MD 21638

Catalog Number  
MFPRE10X  
Project Number  
10244882  
Test Number  
517455

Test Date

2014-03-07

Prepared By

A handwritten signature in black ink, appearing to read 'Barry Mello Jr.'.

Barry Mello Jr., Technician

Approved By

A handwritten signature in black ink, appearing to read 'Kyle Spaziani'.

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.  
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Luminaire Description: Extruded aluminum housing, clear linear prismatic plastic enclosure  
Catalog Number: MFPRE10X  
Lamp: Six white LEDs with clear plastic optics below each  
Mounting: Surface Wall  
Note: Upon request this data was prorated to intensity values measured immediately following switch-on. Test was performed using the calibrated method of absolute photometry.

Luminaire



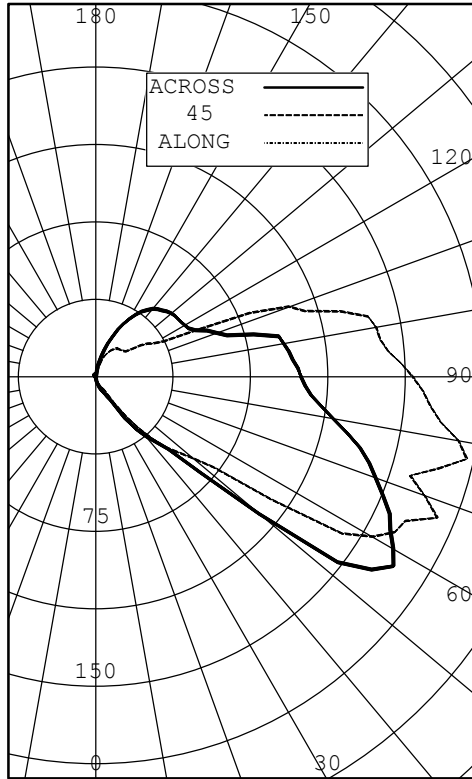
Test Conditions

Test Temperature:	24.8 °C
Voltage:	24.00 VDC
Current:	0.2953 A
Power:	7.086 W



INTENSITY (CANDLEPOWER) SUMMARY

ANGLE	BEAM SIDE			ACROSS	OUTPUT LUMENS
	ALONG	67.5	45		
0	0	0	0	0	0
5	0	0	0	0	0
15	0	0	2	3	0
25	0	1	5	7	1
35	0	4	16	21	5
45	0	47	49	81	50
55	0	82	104	102	42
65	0	86	166	127	57
75	0	88	172	120	59
85	0	83	163	108	55
90	0	78	154	101	99
95	0	73	142	94	49
105	0	57	123	71	38
115	0	20	53	43	20
125	0	16	27	34	11
135	0	13	18	29	8
145	0	8	17	26	5
155	0	5	12	18	3
165	0	2	5	9	1
175	0	0	0	0	0
180	0	0	0	0	0



BOTH SIDES

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1	0.34
0-40	6	1.66
0-60	67	18.00
0-90	238	63.65
40-90	232	61.99
60-90	171	45.64
90-180	136	36.35
0-180	374	100.00

EFFICACY (LUMENS PER WATT): 52.7

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 0.000 INS  
 WIDTH: 9.250 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	BEAM SIDE		
	ALONG	45	ACROSS
45	0	7687	0
55	0	14130	0
65	0	20333	0
75	0	19793	0
85	0	18157	0

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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BEAM SIDE  
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	
0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0
10	0	0	1	1	1	1	
15	0	0	2	3	3	2	0
20	0	1	3	5	6	3	
25	0	1	5	7	9	4	1
30	0	2	6	9	11	6	
35	0	4	16	21	25	13	5
40	0	15	33	61	38	32	
45	0	47	49	81	50	50	20
50	0	72	62	90	104	69	
55	0	82	104	102	163	92	42
60	0	89	155	121	166	112	
65	0	86	166	127	157	114	57
70	0	90	170	123	144	114	
75	0	88	172	120	133	111	59
80	0	82	178	115	117	108	
85	0	83	163	108	105	101	55
90	0	78	154	101	99	96	
95	0	73	142	94	96	89	49
100	0	65	138	83	93	83	
105	0	57	123	71	79	73	38
110	0	45	100	58	62	58	
115	0	20	53	43	53	36	20
120	0	16	32	38	50	28	
125	0	16	27	34	49	25	11
130	0	15	19	30	48	22	
135	0	13	18	29	46	21	8
140	0	10	18	27	43	19	
145	0	8	17	26	38	17	5
150	0	7	15	23	32	15	
155	0	5	12	18	25	12	3
160	0	4	9	14	17	9	
165	0	2	5	9	11	5	1
170	0	0	2	2	5	2	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



OPPOSITE SIDE TO BEAM  
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS		
0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0
10	0	0	0	0	0	0	
15	0	0	0	0	0	0	0
20	0	0	0	0	0	0	
25	0	0	0	0	0	0	0
30	0	0	0	0	0	0	
35	0	0	0	0	0	0	0
40	0	0	0	0	0	0	
45	0	0	0	0	0	0	0
50	0	0	0	0	0	0	
55	0	0	0	0	0	0	0
60	0	0	0	0	0	0	
65	0	0	0	0	0	0	0
70	0	0	0	0	0	0	
75	0	0	0	0	0	0	0
80	0	0	0	0	0	0	
85	0	0	0	0	0	0	0
90	0	0	0	0	0	0	
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	
105	0	0	0	0	0	0	0
110	0	0	1	0	0	0	
115	0	0	1	0	0	1	0
120	0	0	1	1	1	1	
125	0	0	1	1	1	1	0
130	0	0	1	1	1	1	
135	0	0	1	1	1	1	0
140	0	0	1	1	1	1	
145	0	0	1	1	1	1	0
150	0	0	1	1	1	1	
155	0	0	1	1	1	1	0
160	0	0	1	1	1	1	
165	0	0	0	1	1	1	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																										
0	1.171	1.171	1.171	1.17	1.101	1.101	1.101	1.10	1.041	1.041	1.041	1.04	0.910	0.910	0.91	0.790	0.790	0.79	0.690	0.690	0.69	0.64				
1	1.000	0.920	0.840	0.78	0.930	0.860	0.790	0.73	0.860	0.800	0.730	0.68	0.680	0.640	0.59	0.580	0.540	0.51	0.490	0.460	0.43	0.38				
2	0.870	0.750	0.640	0.55	0.810	0.690	0.600	0.51	0.750	0.640	0.550	0.48	0.540	0.470	0.41	0.460	0.400	0.35	0.370	0.330	0.29	0.24				
3	0.770	0.620	0.500	0.41	0.710	0.570	0.470	0.38	0.650	0.530	0.430	0.35	0.450	0.370	0.30	0.370	0.300	0.25	0.290	0.240	0.20	0.16				
4	0.690	0.530	0.410	0.32	0.640	0.490	0.380	0.30	0.590	0.450	0.350	0.27	0.380	0.300	0.23	0.310	0.240	0.19	0.250	0.190	0.15	0.11				
5	0.630	0.450	0.340	0.25	0.580	0.420	0.310	0.23	0.520	0.390	0.290	0.21	0.320	0.240	0.18	0.260	0.190	0.14	0.210	0.150	0.11	0.07				
6	0.570	0.390	0.280	0.20	0.520	0.360	0.260	0.18	0.470	0.330	0.240	0.17	0.280	0.200	0.14	0.220	0.160	0.11	0.180	0.120	0.08	0.05				
7	0.510	0.340	0.240	0.16	0.470	0.320	0.220	0.15	0.430	0.290	0.200	0.13	0.240	0.160	0.11	0.190	0.130	0.08	0.150	0.100	0.06	0.03				
8	0.470	0.310	0.200	0.13	0.430	0.280	0.190	0.12	0.400	0.260	0.170	0.11	0.220	0.140	0.09	0.180	0.110	0.06	0.140	0.080	0.04	0.02				
9	0.440	0.280	0.180	0.11	0.400	0.260	0.160	0.10	0.370	0.240	0.150	0.09	0.190	0.120	0.07	0.160	0.100	0.05	0.120	0.070	0.03	0.01				
10	0.400	0.250	0.150	0.10	0.370	0.230	0.140	0.09	0.340	0.210	0.130	0.08	0.180	0.110	0.06	0.140	0.080	0.04	0.110	0.060	0.03	0.01				

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
 LUMINOUS OPENING OF LUMINAIRE.