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-LV

Project Number

10244882

Test Number

517456

Test Date

2014-03-07

Prepared By

Javier Caban

Javier Caban, Technician

Approved By

Kyle Spaziani

Kyle Spaziani, Project Handler

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Luminaire Description:	Extruded aluminum housing, semi-specular aluminum louver reflector, clear linear prismatic plastic enclosure
Catalog Number:	MFPRE10X-LV
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:	24.5	°C
Voltage:	24.00	VDC
Current:	0.2947	A
Power:	7.072	W

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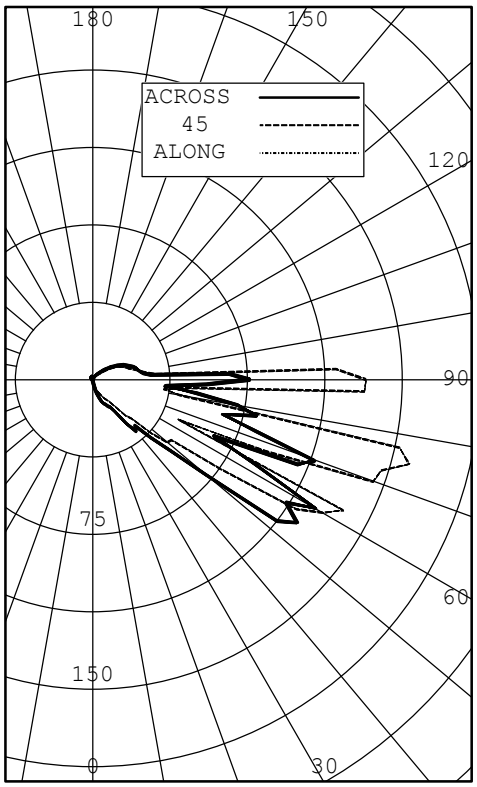

INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	BEAM SIDE ALONG	67.5	45	22.5	ACROSS	OUTPUT LUMENS
0	0	0	0	0	0	
5	0	0	0	0	0	0
15	0	0	2	4	5	0
25	0	1	7	12	13	2
35	0	9	12	16	19	4
45	0	12	27	61	40	12
55	0	36	75	71	121	27
65	0	54	46	72	65	34
75	0	59	159	94	65	42
85	0	14	47	34	35	25
90	0	52	132	81	76	
95	0	12	31	27	28	20
105	0	7	20	18	22	7
115	0	5	16	13	17	5
125	0	4	8	8	11	3
135	0	1	3	5	6	1
145	0	0	1	3	3	0
155	0	0	0	1	1	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

BOTH SIDES
ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	2	1.03
0-40	6	3.20
0-60	45	24.25
0-90	147	78.92
40-90	141	75.72
60-90	102	54.67
90-180	39	21.08
0-180	186	100.00

EFFICACY (LUMENS PER WATT): 26.2

*** 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	4241	0
55	0	10225	0
65	0	5622	0
75	0	18265	0
85	0	5292	0

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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BEAM SIDE
INTENSITY(CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	LUMENS
0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0
10	0	0	0	1	1	0	
15	0	0	2	4	5	2	0
20	0	0	5	8	10	4	
25	0	1	7	12	13	7	2
30	0	3	10	14	15	9	
35	0	9	12	16	19	12	4
40	0	13	17	32	33	20	
45	0	12	27	61	40	30	12
50	0	11	47	73	72	42	
55	0	36	75	71	121	61	27
60	0	37	129	96	125	81	
65	0	54	46	72	65	51	34
70	0	30	145	76	114	77	
75	0	59	159	94	65	86	42
80	0	59	43	52	71	47	
85	0	14	47	34	35	28	25
90	0	52	132	81	76	76	
95	0	12	31	27	28	21	20
100	0	9	24	21	23	16	
105	0	7	20	18	22	14	7
110	0	5	18	16	19	12	
115	0	5	16	13	17	10	5
120	0	4	12	11	14	8	
125	0	4	8	8	11	6	3
130	0	3	5	6	8	4	
135	0	1	3	5	6	3	1
140	0	0	2	4	4	2	
145	0	0	1	3	3	1	0
150	0	0	1	2	2	1	
155	0	0	0	1	1	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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OPPOSITE SIDE TO BEAM
INTENSITY(CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	LUMENS
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	2	1	0
160	0	0	1	1	1	1	
165	0	0	1	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	

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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	0
RCR																						
0	1.19	1.19	1.19	1.19	1.14	1.14	1.14	1.14	1.09	1.09	1.09	1.09	0.99	0.99	0.99	0.91	0.91	0.91	0.83	0.83	0.83	0.79
1	1.01	0.92	0.84	0.78	0.96	0.88	0.81	0.74	0.91	0.83	0.77	0.71	0.75	0.70	0.65	0.67	0.63	0.59	0.60	0.56	0.53	0.49
2	0.87	0.74	0.63	0.53	0.82	0.70	0.60	0.51	0.78	0.66	0.56	0.48	0.59	0.51	0.44	0.52	0.45	0.40	0.46	0.40	0.36	0.32
3	0.77	0.60	0.48	0.38	0.72	0.57	0.45	0.36	0.67	0.53	0.43	0.34	0.47	0.38	0.31	0.41	0.34	0.27	0.36	0.30	0.24	0.21
4	0.69	0.51	0.38	0.29	0.64	0.48	0.36	0.27	0.60	0.45	0.35	0.26	0.40	0.31	0.23	0.35	0.27	0.21	0.30	0.23	0.18	0.15
5	0.62	0.43	0.31	0.22	0.58	0.41	0.29	0.21	0.53	0.38	0.28	0.20	0.34	0.24	0.17	0.29	0.21	0.15	0.25	0.18	0.13	0.10
6	0.56	0.37	0.26	0.17	0.52	0.35	0.24	0.16	0.48	0.33	0.23	0.15	0.29	0.20	0.13	0.25	0.17	0.11	0.21	0.15	0.09	0.06
7	0.50	0.32	0.21	0.14	0.47	0.31	0.20	0.13	0.44	0.29	0.19	0.12	0.25	0.16	0.10	0.22	0.14	0.08	0.19	0.12	0.07	0.04
8	0.46	0.29	0.18	0.11	0.43	0.27	0.17	0.10	0.40	0.26	0.16	0.09	0.22	0.14	0.08	0.19	0.12	0.07	0.16	0.10	0.05	0.03
9	0.43	0.26	0.16	0.09	0.40	0.25	0.15	0.08	0.37	0.23	0.14	0.08	0.20	0.12	0.07	0.18	0.10	0.05	0.15	0.09	0.04	0.02
10	0.39	0.24	0.14	0.08	0.37	0.22	0.13	0.07	0.35	0.21	0.12	0.07	0.18	0.11	0.05	0.16	0.09	0.04	0.14	0.08	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.