



Picasso Lighting

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MUS-XR-4-D10-30-80-FW-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2020.0.0
[ISSUEDATE] 4/18/2024
[TESTDATE] Thu Apr 19 11:20:58 2024
[TEST] IES-P00377
[MANUFAC] Picasso Lighting Industries, LLC
[LUMCAT] MUS-xR-4-D10-30-80-FW-W
[LUMINAIRE] MUSE - 4' Downlight - White Housing, Frosted White Lens (Downlight)
[LAMP] LED (3000K 80+ CRI)
[OTHER]
[OTHER] This test was performed using absolute photometry.
[OTHER]
[OTHER] Indoor Photometric Report
[OTHER] Distribution: Direct
[OTHER] Symmetry: Quadrilateral
[OTHER] Photometric Type: C
[OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	34.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.04 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.33 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10379	6189	5236
55	9594	4801	3861
65	8239	3231	2442
75	6026	1632	1133
85	3515	522	314

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1515.66	1515.66	1515.66	1515.66	1515.66
10	1470.13	1469.14	1471.26	1471.49	1477.14
20	1396.93	1396.32	1402.08	1400.87	1399.01
30	1275.52	1272.58	1271.70	1255.98	1248.59
40	1098.56	1101.45	1081.47	1056.23	1048.63
50	892.02	888.15	854.44	819.82	806.77
60	649.17	634.68	589.64	552.98	540.50
70	377.51	356.07	314.16	283.37	272.59
80	133.54	118.60	94.00	79.80	75.09
90	15.58	19.94	17.13	10.58	10.10
100	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	549.44	N.A.	13.60
0-30	1166.18	N.A.	28.80
0-40	1902.35	N.A.	47.00
0-60	3298.78	N.A.	81.60
0-80	3973.3	N.A.	98.30
0-90	4035.66	N.A.	99.80
10-90	3893.09	N.A.	96.30
20-40	1352.92	N.A.	33.50
20-50	2100.7	N.A.	51.90
40-70	1849.4	N.A.	45.70
60-80	674.53	N.A.	16.70
70-80	221.55	N.A.	5.50
80-90	62.35	N.A.	1.50
90-110	8.25	N.A.	0.20
90-120	8.25	N.A.	0.20
90-130	8.25	N.A.	0.20
90-150	8.25	N.A.	0.20
90-180	8.25	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	4043.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.57
10-20	406.87
20-30	616.74
30-40	736.18
40-50	747.78
50-60	648.64
60-70	452.98
70-80	221.55
80-90	62.35
90-100	8.25
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

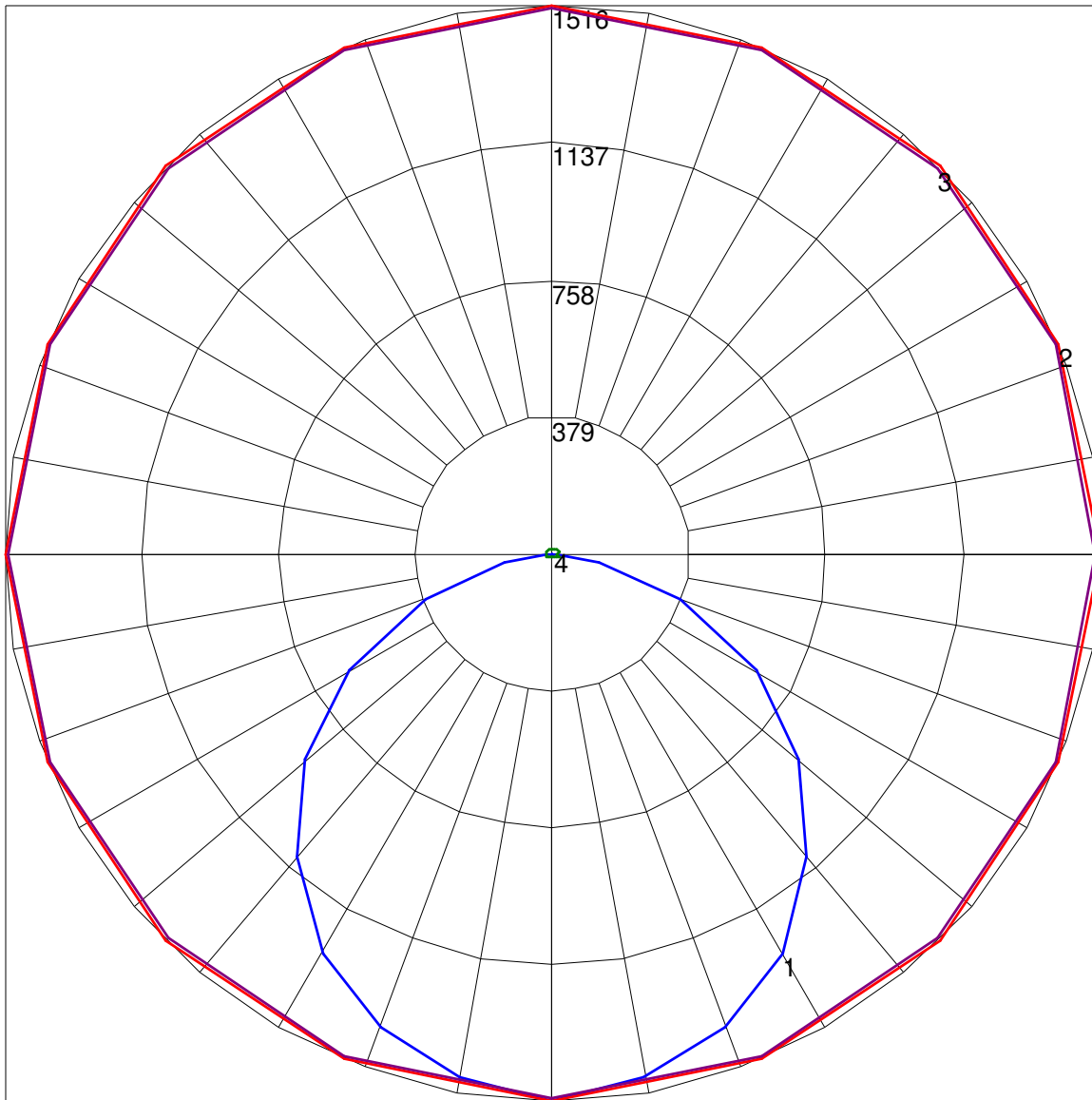
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	90	88	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1515.66 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (2)
4 - Horizontal Cone Through Vertical Angle (90)