

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011988

Luminaire Tested: S123DIP-B775D365UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011988
REPORT IS A COMBINATION OF REPORTS P990342 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

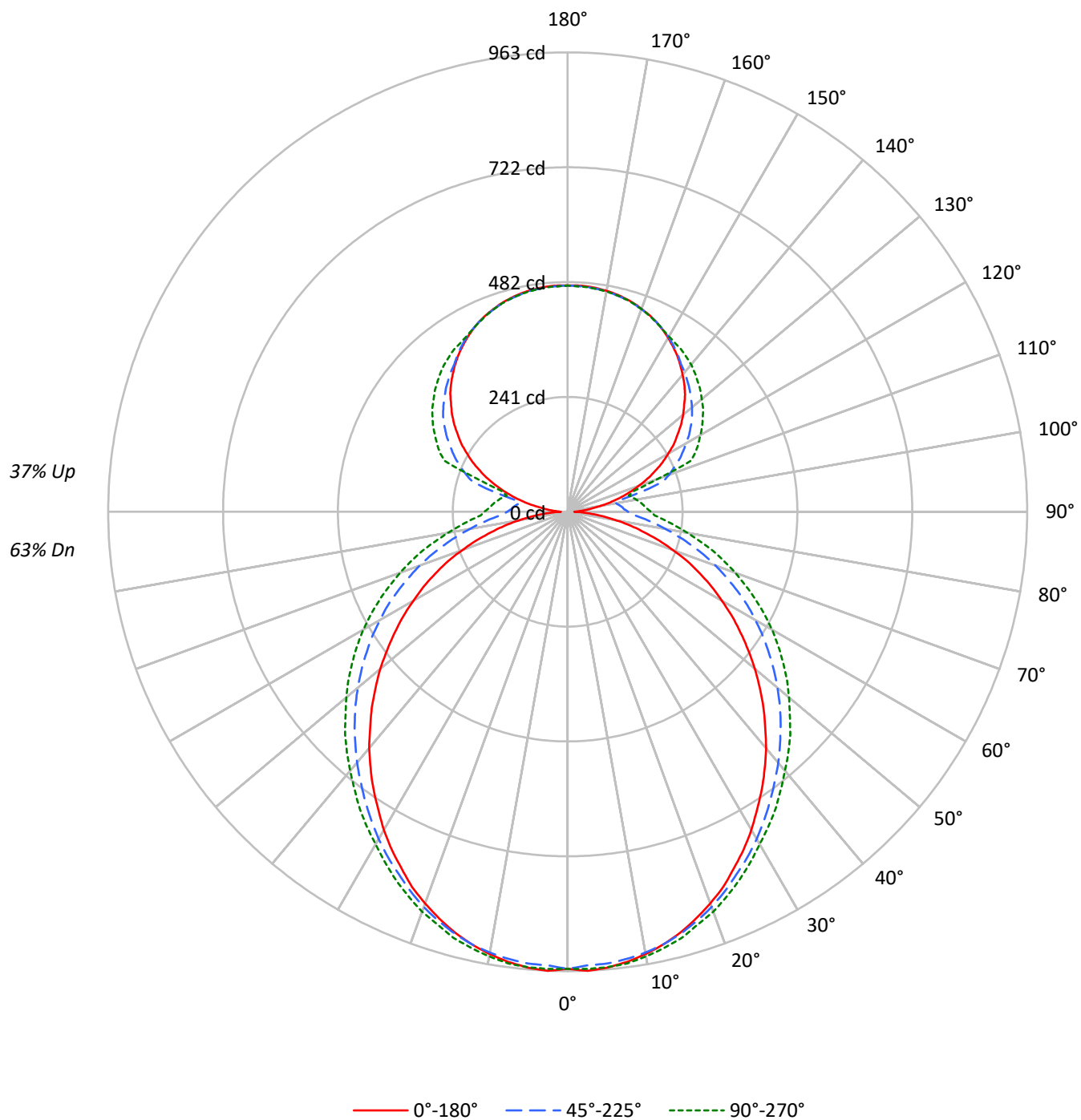
Lumens per Lamp: N/A
Luminaire Lumens: 4666.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	110	110	110	110	103	103	103	103	91	91	91		79	79	79		68
1	99	94	90	86	93	89	85	81	78	75	72		68	65	63		58
2	90	82	75	69	84	77	71	65	67	63	58		59	55	52		51
3	82	71	63	57	76	67	60	54	59	53	49		51	47	43		44
4	75	63	54	48	70	59	52	46	52	46	41		46	41	37		39
5	69	56	47	41	64	53	45	39	47	40	35		41	36	32		35
6	63	50	42	35	59	47	40	34	42	35	31		37	32	28		32
7	58	45	37	31	54	43	35	30	38	32	27		33	28	24		29
8	54	41	33	27	51	39	31	26	35	28	24		31	25	22		27
9	50	38	30	24	47	36	28	23	32	26	21		28	23	19		25
10	47	35	27	22	44	33	26	21	29	23	19		26	21	18		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10313	10313	10313
5°	10342	10010	10002
10°	10244	9739	9665
15°	10109	9440	9307
20°	9917	9106	8923
25°	9679	8730	8525
30°	9437	8391	8125
35°	9165	8033	7800
40°	8906	7706	7456
45°	8618	7390	7172
50°	8334	7077	6864
55°	8018	6756	6582
60°	7709	6428	6291
65°	7392	6078	5953
70°	6915	5685	5602
75°	6311	5238	5242
80°	5608	4784	4830
85°	4908	4417	4535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8618 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.9
10°-20°	259.1	5.6
20°-30°	387.5	8.3
30°-40°	462.6	9.9
40°-50°	484.0	10.4
50°-60°	454.2	9.7
60°-70°	379.4	8.1
70°-80°	271.3	5.8
80°-90°	162.4	3.5
90°-100°	118.2	2.5
100°-110°	155.4	3.3
110°-120°	248.0	5.3
120°-130°	280.0	6.0
130°-140°	281.5	6.0
140°-150°	254.0	5.4
150°-160°	202.7	4.3
160°-170°	130.8	2.8
170°-180°	45.1	1.0
0°-30°	737.5	15.8
0°-40°	1200.1	25.7
0°-60°	2138.3	45.8
0°-90°	2951.3	63.2
90°-120°	521.5	11.2
90°-150°	1337.0	28.6
90°-180°	1716.0	36.8
0°-180°	4666.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	959	957	951	959	958	91
15°	913	916	915	926	925	257
25°	824	835	838	852	852	380
35°	710	726	740	756	760	444
45°	580	605	631	651	660	447
55°	442	477	514	543	551	396
65°	306	346	392	424	434	302
75°	166	215	267	302	314	177
85°	51	103	159	194	205	53
90°	14	69	126	163	174	11
95°	33	59	114	149	160	35
105°	113	142	156	122	132	120
115°	202	217	258	286	296	200
125°	281	284	315	338	346	251
135°	348	349	362	382	386	268
145°	400	401	402	411	415	250
155°	439	439	439	441	439	202
165°	463	462	462	465	462	131
175°	474	473	473	475	473	45
180°	474	474	474	474	474	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.1	958.1	958.1	958.1	958.1
2.5°	963.3	960.2	951.8	960.2	959.2
5°	959.2	957.1	950.8	959.2	958.1
7.5°	951.8	951.8	945.6	956.0	955.0
10°	941.4	943.5	938.3	948.7	946.6
12.5°	928.9	932.0	928.9	938.3	936.2
15°	913.2	916.4	915.3	925.8	924.7
17.5°	894.4	900.7	899.7	909.1	907.0
20°	873.6	879.8	881.9	891.3	892.4
22.5°	851.7	857.9	861.0	873.6	872.5
25°	824.5	835.0	838.1	851.7	851.7
27.5°	798.4	809.9	816.2	827.6	828.7
30°	770.2	783.8	792.2	804.7	804.7
32.5°	738.9	754.6	766.1	779.6	782.8
35°	709.7	726.4	740.0	755.6	759.8
37.5°	678.4	697.2	712.8	730.6	733.7
40°	647.1	665.9	686.7	704.5	708.7
42.5°	612.6	636.7	658.6	678.4	684.7
45°	580.3	605.3	631.4	651.3	659.6
47.5°	545.9	574.0	603.3	625.2	631.4
50°	512.5	541.7	574.0	598.0	605.3
52.5°	477.0	508.3	544.8	569.9	579.2
55°	442.5	477.0	514.5	542.7	551.1
57.5°	409.1	444.6	485.3	513.5	522.9
60°	373.6	411.2	454.0	483.2	494.7
62.5°	340.2	378.9	424.8	454.0	464.4
65°	305.8	346.5	392.4	423.7	434.2
67.5°	271.4	314.2	360.1	394.5	402.9
70°	234.8	279.7	329.8	363.2	373.6
72.5°	201.4	246.3	298.5	332.9	343.4
75°	165.9	215.0	267.2	301.6	314.2
77.5°	135.7	184.7	236.9	273.4	282.8
80°	103.3	154.5	208.7	244.2	254.7
82.5°	75.1	127.3	182.6	218.1	228.6
85°	51.1	103.3	158.6	194.1	204.6
87.5°	31.3	83.5	136.7	172.2	182.6
90°	14.0	68.6	126.4	163.3	174.5
92.5°	20.6	63.4	118.8	155.6	165.4
95°	33.0	59.2	114.2	149.1	159.5
97.5°	49.5	77.2	108.4	142.5	153.2
100°	69.0	109.4	102.4	135.5	146.3
102.5°	91.1	125.0	110.6	128.2	139.4
105°	113.3	142.3	155.5	122.3	132.4
107.5°	135.9	161.0	209.1	183.0	146.3
110°	158.5	180.1	225.7	241.2	199.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.1	198.2	241.6	270.9	279.6
115°	202.2	216.8	257.6	286.2	295.9
117.5°	224.0	234.9	272.2	300.0	308.7
120°	243.1	251.5	287.0	313.8	321.1
122.5°	263.6	268.1	301.8	326.6	334.3
125°	280.8	283.6	315.3	337.9	345.9
127.5°	299.1	300.9	328.8	350.8	357.4
130°	316.0	317.9	340.2	361.4	367.0
132.5°	331.2	334.1	350.7	370.9	377.2
135°	347.8	348.8	361.7	381.6	385.7
137.5°	361.9	363.6	371.6	390.1	394.7
140°	374.9	377.0	381.3	398.3	402.8
142.5°	387.9	389.1	390.1	404.8	408.9
145°	399.9	401.4	402.1	411.1	415.3
147.5°	410.6	412.3	413.0	416.8	419.3
150°	421.1	422.2	422.9	423.6	424.6
152.5°	430.6	431.0	431.3	432.8	431.0
155°	439.4	438.7	439.1	440.9	438.7
157.5°	446.5	446.5	446.1	448.3	445.4
160°	452.8	452.5	452.1	454.2	451.8
162.5°	458.8	457.8	457.4	459.9	457.8
165°	463.4	462.4	462.0	464.8	462.4
167.5°	467.3	465.9	465.9	468.7	465.9
170°	470.5	469.0	469.0	471.9	469.0
172.5°	472.6	470.8	471.2	474.0	470.8
175°	474.3	472.6	472.9	475.4	472.6
177.5°	475.0	473.3	473.6	476.5	472.9
180°	474.3	474.3	474.3	474.3	474.3

(END OF REPORT)