

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: P1011990

Luminaire Tested: S123DIP-B775D365UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011990
REPORT IS A COMBINATION OF REPORTS P990344 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

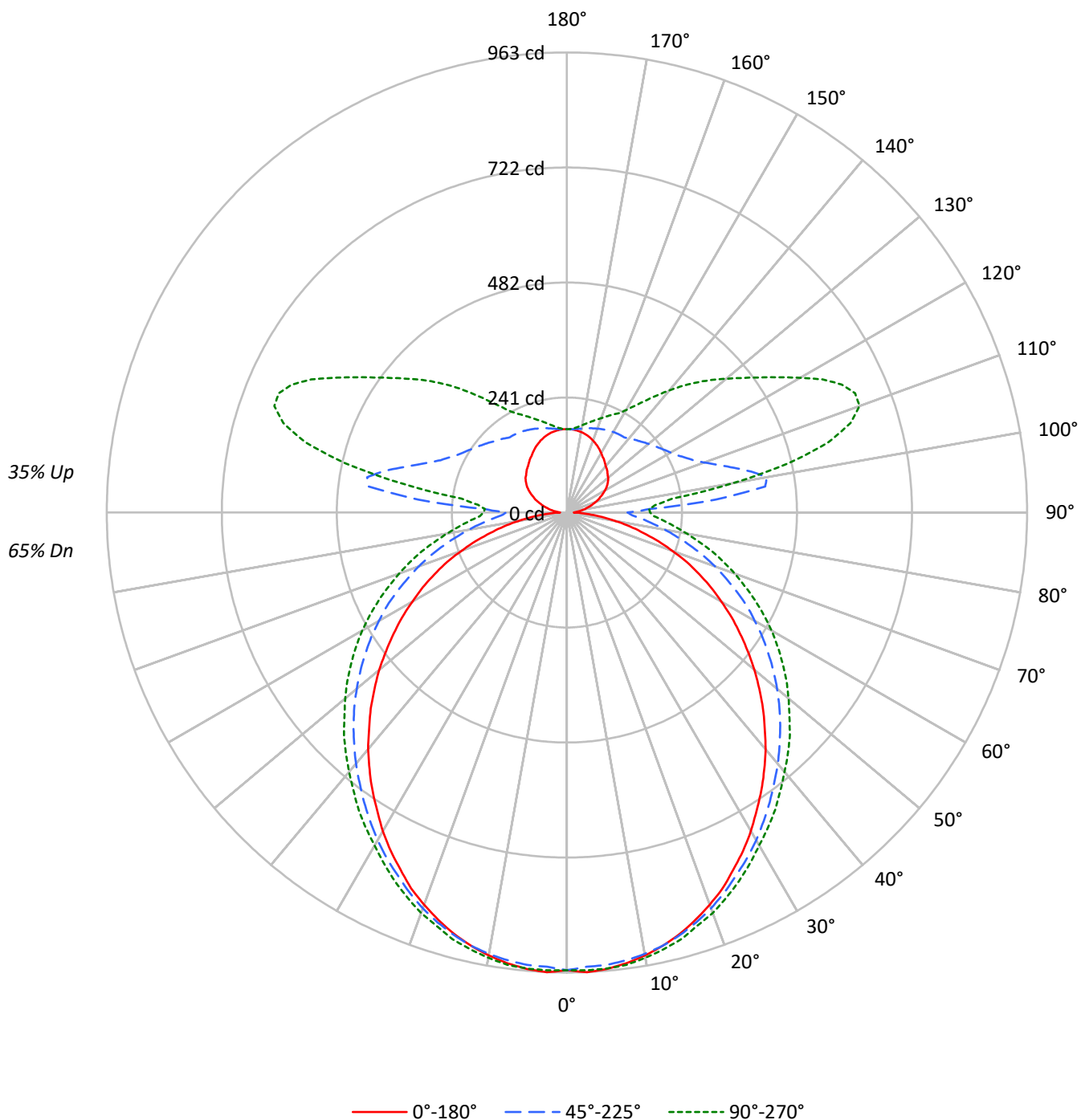
Lumens per Lamp: N/A
Luminaire Lumens: 4534.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	90	86	93	89	85	82	78	75	73	69	66	64	60	58	56
2	90	82	75	69	84	77	71	66	68	63	59	60	56	53	52	49	46
3	82	72	64	57	77	67	60	54	60	54	49	52	48	44	45	42	39
4	75	63	55	48	70	60	52	46	53	46	42	46	41	37	40	36	33
5	69	56	48	41	64	53	45	39	47	41	36	41	36	32	36	32	29
6	63	50	42	36	59	48	40	34	42	36	31	37	32	28	33	29	25
7	59	46	37	31	55	43	35	30	38	32	27	34	29	25	30	26	22
8	54	41	33	28	51	39	32	26	35	29	24	31	26	22	27	23	20
9	51	38	30	25	47	36	29	24	32	26	22	29	24	20	25	21	18
10	47	35	27	22	44	33	26	21	30	24	20	26	21	18	24	19	16

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	2.0
10°-20°	259.1	5.7
20°-30°	387.5	8.5
30°-40°	462.6	10.2
40°-50°	484.0	10.7
50°-60°	454.2	10.0
60°-70°	379.4	8.4
70°-80°	271.3	6.0
80°-90°	162.4	3.6
90°-100°	200.4	4.4
100°-110°	351.2	7.7
110°-120°	319.5	7.0
120°-130°	243.2	5.4
130°-140°	182.3	4.0
140°-150°	129.1	2.8
150°-160°	88.3	1.9
160°-170°	51.8	1.1
170°-180°	16.9	0.4
0°-30°	737.5	16.3
0°-40°	1200.1	26.5
0°-60°	2138.3	47.2
0°-90°	2951.3	65.1
90°-120°	871.1	19.2
90°-150°	1425.7	31.4
90°-180°	1583.0	34.9
0°-180°	4534.0	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	127	163	174	11
95°	24	91	312	197	187	22
105°	49	94	362	603	565	52
115°	78	108	272	556	634	77
125°	104	122	236	422	493	92
135°	120	141	212	333	385	93
145°	135	154	197	256	285	85
155°	153	165	191	217	226	70
165°	167	172	183	194	197	47
175°	174	174	175	178	177	17
180°	174	174	174	174	174	

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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°	14.3	69.0	126.7	163.2	174.1
92.5°	17.8	78.6	175.2	166.4	172.1
95°	23.5	91.2	312.4	196.6	187.0
97.5°	29.4	92.6	418.6	281.8	222.7
100°	35.5	92.0	424.7	441.9	352.5
102.5°	41.8	92.1	395.4	543.4	474.3
105°	49.2	93.8	361.7	603.2	565.3
107.5°	56.0	96.7	331.1	625.0	622.2
110°	63.4	99.8	305.8	619.6	651.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.2	103.2	286.1	592.4	652.7
115°	77.5	107.8	272.1	555.8	634.1
117.5°	84.9	111.1	259.9	517.1	603.2
120°	91.6	114.3	250.7	480.1	563.4
122.5°	98.3	118.2	243.1	449.8	526.9
125°	103.6	121.8	235.8	422.0	492.7
127.5°	108.5	127.0	229.5	398.2	462.5
130°	113.1	132.8	223.2	375.6	435.5
132.5°	115.6	137.8	217.6	354.2	410.8
135°	119.9	141.4	212.0	333.2	385.2
137.5°	123.7	145.4	207.1	312.2	359.6
140°	126.5	148.9	202.7	292.5	333.8
142.5°	130.7	151.0	197.8	273.0	308.6
145°	135.3	153.9	197.1	256.0	285.0
147.5°	138.9	156.9	196.0	241.6	265.0
150°	143.5	159.4	194.6	230.4	247.1
152.5°	148.1	162.0	192.8	223.4	234.4
155°	152.7	164.6	190.7	216.8	226.0
157.5°	156.2	167.0	189.0	210.4	217.9
160°	160.4	168.8	186.8	204.6	210.1
162.5°	163.6	170.3	184.7	199.1	203.1
165°	166.8	171.5	182.6	193.7	197.1
167.5°	169.2	172.6	180.5	189.0	191.1
170°	171.3	173.1	178.4	184.8	185.8
172.5°	172.7	173.6	176.6	181.0	180.9
175°	173.8	174.0	175.2	177.7	177.3
177.5°	174.5	174.2	174.2	175.6	174.9
180°	174.2	174.2	174.2	174.2	174.2

(END OF REPORT)