

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: P1001869

Luminaire Tested: SA4XXDIP-B795D365UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001869
REPORT IS A COMBINATION OF REPORTS P996494 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D365UB50-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

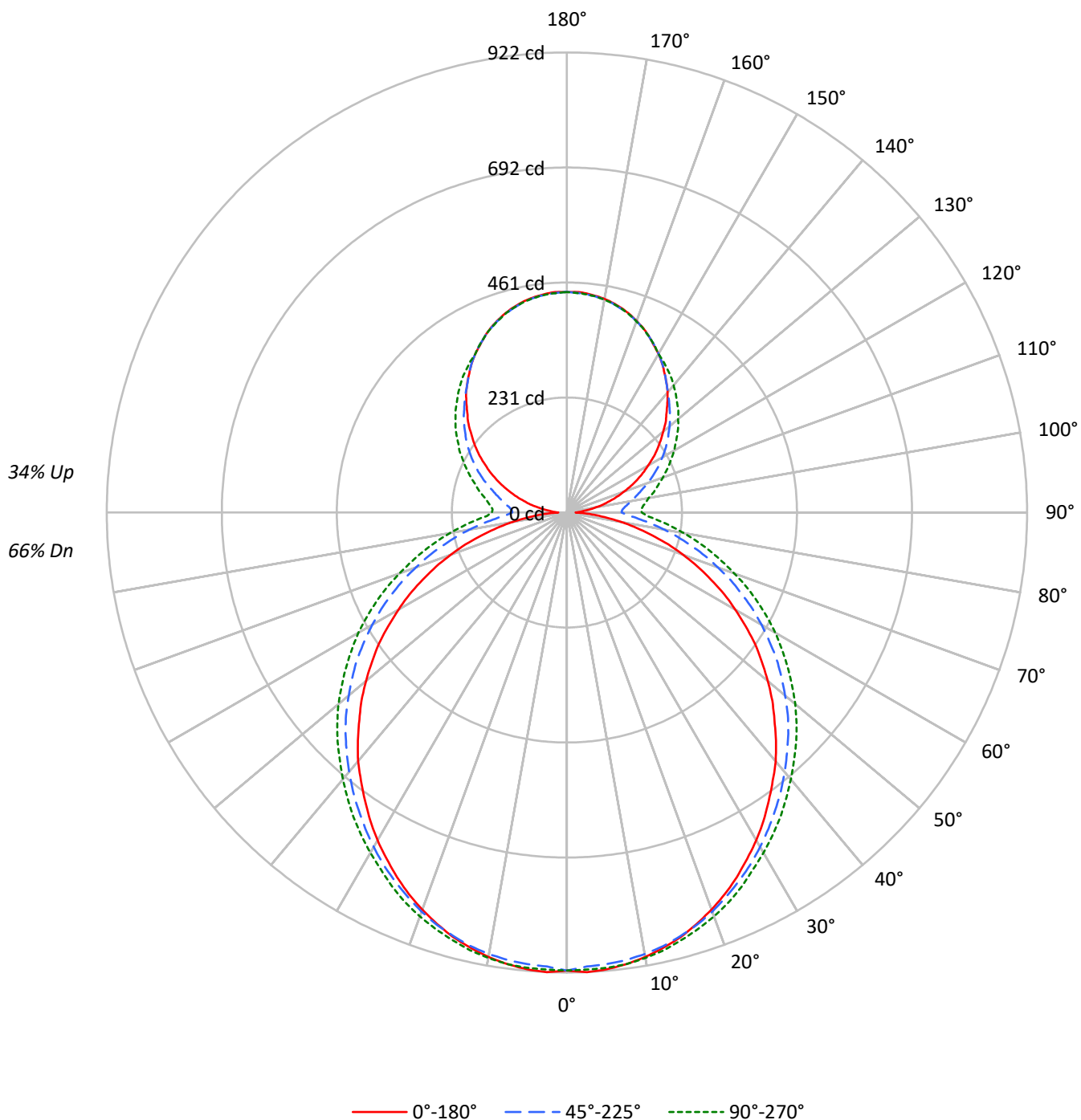
Lumens per Lamp: N/A
Luminaire Lumens: 4357.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
Input Voltage (V):
Input Current (A_{in}): 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		105	105	105	105		92	92	92		81	81	81		71	71	71
1	100	95	91	87		94	90	86	82		79	76	73		70	67	65		61	59	58
2	91	82	75	70		85	78	71	66		69	64	60		60	57	53		53	50	47
3	82	72	64	57		77	68	61	55		60	54	50		53	48	45		46	43	40
4	75	63	55	48		70	60	52	46		53	47	42		47	42	38		41	37	34
5	69	56	48	41		64	53	45	39		47	41	36		42	37	33		37	33	29
6	63	51	42	36		59	48	40	34		43	36	31		38	32	28		33	29	26
7	59	46	37	31		55	43	35	30		39	32	27		34	29	25		30	26	23
8	54	41	33	28		51	39	32	26		35	29	24		31	26	22		28	23	20
9	51	38	30	25		48	36	29	24		32	26	22		29	24	20		26	21	18
10	47	35	27	22		45	33	26	21		30	24	20		27	22	18		24	20	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7486	7486	7486
5°	7507	7291	7304
10°	7458	7147	7127
15°	7388	6986	6927
20°	7285	6812	6733
25°	7168	6619	6524
30°	7042	6428	6311
35°	6899	6234	6121
40°	6785	6046	5924
45°	6616	5870	5750
50°	6471	5671	5567
55°	6323	5478	5355
60°	6090	5239	5157
65°	5836	4980	4918
70°	5528	4686	4641
75°	5095	4357	4378
80°	4611	4024	4103
85°	3966	3687	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	2.0
10°-20°	249.2	5.7
20°-30°	376.8	8.6
30°-40°	455.9	10.5
40°-50°	482.0	11.1
50°-60°	453.6	10.4
60°-70°	376.4	8.6
70°-80°	264.1	6.1
80°-90°	149.9	3.4
90°-100°	117.4	2.7
100°-110°	151.9	3.5
110°-120°	190.6	4.4
120°-130°	218.1	5.0
130°-140°	227.8	5.2
140°-150°	215.5	4.9
150°-160°	179.5	4.1
160°-170°	119.4	2.7
170°-180°	41.8	1.0
0°-30°	713.1	16.4
0°-40°	1169.0	26.8
0°-60°	2104.5	48.3
0°-90°	2894.9	66.4
90°-120°	460.0	10.6
90°-150°	1121.4	25.7
90°-180°	1462.0	33.6
0°-180°	4357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	919	916	909	917	916	87
15°	881	882	879	888	887	248
25°	806	812	815	827	828	371
35°	705	718	728	742	745	442
45°	588	608	627	645	650	454
55°	461	482	513	534	540	410
65°	319	352	386	412	420	316
75°	177	215	258	287	296	188
85°	54	98	144	175	185	57
90°	17	62	109	141	150	13
95°	34	71	115	144	153	33
105°	89	110	149	176	185	95
115°	155	164	197	219	226	153
125°	221	220	246	264	270	197
135°	282	284	291	307	312	218
145°	341	341	342	348	351	214
155°	390	390	389	391	389	179
165°	424	423	422	424	423	120
175°	441	440	439	442	439	42
180°	442	442	442	442	442	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.0	918.0	918.0	918.0	918.0
2.5°	922.2	919.1	910.9	918.0	917.0
5°	919.1	916.0	908.8	917.0	916.0
7.5°	912.9	910.9	904.7	913.9	912.9
10°	904.7	903.7	898.5	907.8	906.7
12.5°	893.4	893.4	890.3	898.5	898.5
15°	881.0	882.1	879.0	888.2	887.2
17.5°	864.6	867.7	866.6	875.9	874.9
20°	847.1	850.2	851.2	861.5	861.5
22.5°	827.6	831.7	833.7	844.0	846.1
25°	806.0	812.2	815.2	826.6	827.6
27.5°	782.3	791.6	795.7	806.0	807.0
30°	758.7	766.9	774.1	785.4	787.5
32.5°	733.0	743.3	751.5	764.9	766.9
35°	705.2	717.6	727.9	742.3	745.3
37.5°	677.5	691.9	704.2	718.6	721.7
40°	650.8	664.1	678.5	693.9	698.0
42.5°	619.9	635.3	652.8	670.3	673.4
45°	588.0	607.6	627.1	644.6	649.7
47.5°	558.2	577.8	600.4	617.9	624.0
50°	525.3	547.9	570.6	591.1	597.3
52.5°	492.4	515.1	541.8	562.3	568.5
55°	460.6	482.2	513.0	533.6	539.7
57.5°	424.6	451.3	481.1	505.8	510.9
60°	389.6	416.4	450.3	473.9	482.2
62.5°	355.7	385.5	419.4	443.1	451.3
65°	318.7	351.6	386.5	412.2	420.5
67.5°	283.7	318.7	355.7	381.4	389.6
70°	247.8	282.7	321.8	349.5	356.7
72.5°	212.8	248.8	290.9	317.7	325.9
75°	176.8	214.9	258.0	286.8	296.1
77.5°	142.9	183.0	228.2	257.0	267.3
80°	112.1	153.2	198.4	229.3	237.5
82.5°	81.2	124.4	169.6	201.5	210.7
85°	54.5	97.7	143.9	174.8	185.0
87.5°	33.9	76.1	121.3	151.1	160.4
90°	17.4	62.4	109.3	141.2	150.1
92.5°	24.3	64.7	110.6	140.5	149.0
95°	33.9	70.9	115.4	144.2	153.4
97.5°	45.1	77.6	122.6	150.6	159.9
100°	59.1	87.2	130.4	158.9	166.1
102.5°	74.9	97.8	139.6	167.4	175.9
105°	88.9	109.8	149.2	176.0	185.2
107.5°	105.7	123.4	159.8	186.8	193.7
110°	121.7	136.7	172.4	195.3	204.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.4	150.7	184.0	206.6	214.8
115°	155.2	164.4	196.6	218.9	225.7
117.5°	171.9	178.0	208.6	229.2	236.4
120°	187.6	192.1	220.8	239.7	248.6
122.5°	205.0	205.4	232.8	252.4	257.9
125°	221.1	220.1	245.5	264.3	269.8
127.5°	236.5	236.5	256.3	274.1	281.0
130°	251.9	251.9	268.3	286.1	291.0
132.5°	268.6	268.3	280.3	297.1	302.9
135°	282.0	284.0	291.2	307.0	312.1
137.5°	298.1	298.0	302.8	317.2	322.7
140°	314.1	313.7	314.8	327.8	332.6
142.5°	327.7	328.4	327.1	338.4	342.5
145°	341.0	341.4	341.7	347.6	350.7
147.5°	354.7	355.4	355.1	355.7	359.5
150°	367.0	367.4	367.4	367.4	367.0
152.5°	377.6	378.3	378.7	379.7	378.7
155°	389.6	389.6	389.3	390.6	389.3
157.5°	399.8	399.2	399.2	400.2	399.2
160°	408.7	408.4	408.0	409.1	407.4
162.5°	416.9	415.9	415.6	417.6	415.9
165°	424.1	423.1	422.4	424.5	423.1
167.5°	429.9	428.6	428.6	430.6	428.6
170°	434.7	433.0	433.3	435.4	433.0
172.5°	438.1	436.8	436.8	439.1	436.8
175°	441.2	439.5	439.1	441.5	439.1
177.5°	442.6	440.9	440.9	443.2	440.5
180°	441.9	441.9	441.9	441.9	441.9

(END OF REPORT)