

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: P1001686

Luminaire Tested: SA4XXDIP-B575D810UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001686
REPORT IS A COMBINATION OF REPORTS P996308 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D810UB40-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

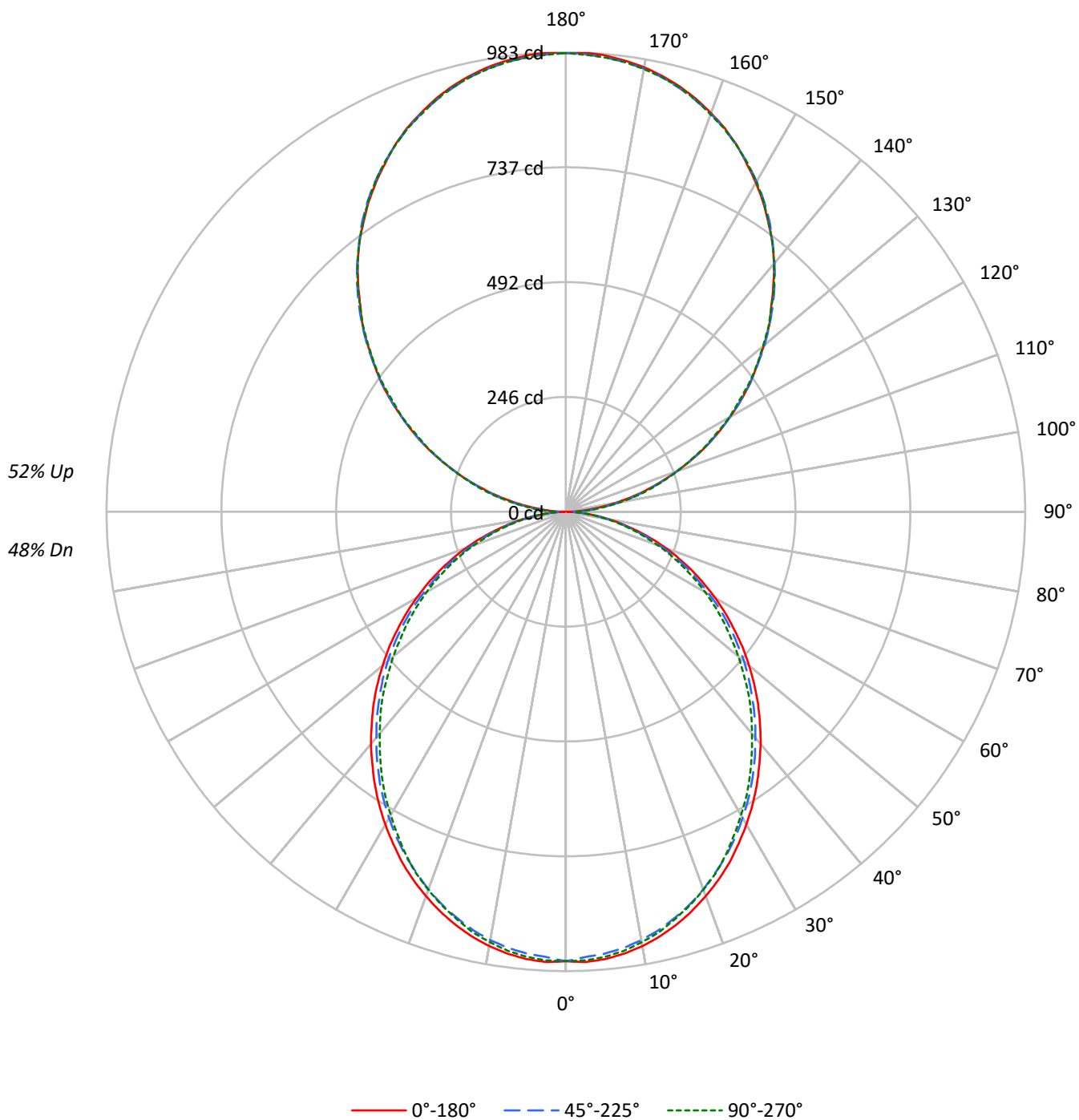
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	86	82	79	72	69	67	59	58	56	48	46	45
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	40	37	35	33
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7841	7841	7841
5°	7848	7615	7625
10°	7781	7404	7353
15°	7669	7153	7045
20°	7527	6880	6726
25°	7367	6594	6384
30°	7173	6283	6008
35°	6973	5965	5644
40°	6763	5623	5258
45°	6545	5280	4896
50°	6302	4947	4495
55°	6038	4558	4098
60°	5770	4133	3683
65°	5461	3693	3217
70°	5104	3164	2717
75°	4573	2550	2176
80°	3899	1844	1530
85°	3027	1028	824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.7
10°-20°	255.3	4.9
20°-30°	375.8	7.2
30°-40°	436.8	8.4
40°-50°	436.8	8.4
50°-60°	382.0	7.4
60°-70°	283.6	5.5
70°-80°	160.9	3.1
80°-90°	48.2	0.9
90°-100°	64.0	1.2
100°-110°	191.7	3.7
110°-120°	325.6	6.3
120°-130°	429.4	8.3
130°-140°	482.3	9.3
140°-150°	474.0	9.1
150°-160°	398.7	7.7
160°-170°	265.3	5.1
170°-180°	92.9	1.8
0°-30°	721.7	13.9
0°-40°	1158.6	22.3
0°-60°	1977.4	38.1
0°-90°	2470.1	47.6
90°-120°	581.3	11.2
90°-150°	1967.0	37.9
90°-180°	2724.0	52.4
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	961	958	949	958	956	91
15°	914	912	900	904	902	258
25°	828	823	812	813	810	381
35°	713	707	696	691	687	446
45°	582	576	564	556	553	448
55°	440	438	427	418	413	394
65°	298	294	287	279	275	295
75°	159	155	151	148	147	168
85°	42	42	40	40	39	45
90°	2	11	17	21	23	6
95°	46	52	58	60	60	49
105°	177	178	181	183	185	188
115°	331	331	330	329	328	326
125°	482	482	481	480	478	430
135°	622	626	626	625	623	481
145°	756	758	759	758	756	473
155°	866	866	865	868	865	398
165°	942	940	938	943	940	266
175°	980	976	976	981	976	93
180°	982	982	982	982	982	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.5	961.5	961.5	961.5	961.5
2.5°	964.6	962.3	953.8	961.5	960.8
5°	960.8	957.7	949.2	957.7	956.2
7.5°	953.8	950.8	941.5	948.4	947.7
10°	943.8	940.7	930.7	936.9	935.4
12.5°	930.7	927.6	916.9	923.8	921.5
15°	914.5	911.5	899.9	904.5	902.2
17.5°	896.1	892.2	881.4	884.5	883.0
20°	875.3	871.4	859.8	862.2	860.6
22.5°	852.9	847.5	836.0	840.6	837.5
25°	828.3	822.9	812.1	812.8	809.8
27.5°	800.5	795.1	785.1	783.6	779.7
30°	772.8	766.6	756.6	753.5	749.7
32.5°	743.5	738.1	727.3	723.5	719.6
35°	712.7	707.3	696.5	691.1	687.3
37.5°	680.3	675.7	664.1	658.8	653.4
40°	648.7	642.6	631.0	623.3	619.5
42.5°	614.8	611.8	598.7	589.4	587.1
45°	581.7	576.3	564.0	555.5	553.2
47.5°	547.0	543.2	531.6	522.4	516.2
50°	511.6	508.5	497.7	486.9	482.3
52.5°	476.9	473.1	461.5	452.3	446.1
55°	439.9	437.6	426.8	417.6	413.0
57.5°	405.3	403.0	392.2	382.9	378.3
60°	369.1	365.2	355.2	348.3	344.4
62.5°	333.6	330.5	319.7	313.6	309.7
65°	298.2	294.3	286.6	278.9	275.1
67.5°	262.0	258.9	251.2	243.5	242.7
70°	228.8	223.4	217.3	211.1	208.8
72.5°	193.4	188.0	183.4	178.7	176.4
75°	158.7	154.9	151.0	147.9	147.2
77.5°	124.8	123.3	119.4	118.7	116.3
80°	94.8	92.5	90.9	89.4	88.6
82.5°	65.5	64.7	64.7	63.9	63.2
85°	41.6	41.6	40.1	40.1	39.3
87.5°	20.0	19.3	18.5	18.5	18.5
90°	2.3	10.6	16.7	21.3	22.8
92.5°	19.7	29.6	33.4	35.7	36.4
95°	45.6	52.4	57.7	60.0	60.0
97.5°	72.9	79.0	85.0	88.1	88.1
100°	106.3	109.3	116.2	117.7	117.7
102.5°	141.2	142.0	148.1	150.3	151.1
105°	176.9	177.7	180.7	183.0	185.3
107.5°	214.1	214.9	215.6	218.7	217.9
110°	252.1	253.6	252.8	251.3	253.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.6	291.6	290.0	290.0	290.0
115°	331.0	331.0	329.5	328.8	328.0
117.5°	368.2	368.2	367.5	365.2	362.9
120°	405.4	408.5	406.2	402.4	403.9
122.5°	444.2	444.9	444.2	441.9	438.1
125°	482.1	482.1	481.4	479.8	478.3
127.5°	516.3	518.6	517.1	515.5	514.8
130°	552.7	555.0	555.0	553.5	550.5
132.5°	589.9	591.5	590.7	589.2	588.4
135°	621.8	626.4	626.4	624.9	622.6
137.5°	657.5	659.8	661.3	659.0	659.8
140°	693.2	694.7	694.7	694.0	693.2
142.5°	725.8	727.4	726.6	726.6	726.6
145°	755.5	758.5	759.3	758.5	756.2
147.5°	785.8	789.6	788.9	788.1	787.3
150°	813.2	816.2	816.2	816.2	815.4
152.5°	839.0	840.5	841.3	843.5	841.3
155°	865.6	865.6	864.8	867.8	864.8
157.5°	888.3	886.8	886.8	889.1	886.8
160°	908.1	907.3	906.5	908.8	905.0
162.5°	926.3	924.0	923.3	927.8	924.0
165°	942.2	940.0	938.4	943.0	940.0
167.5°	955.1	952.1	952.1	956.7	952.1
170°	965.8	962.0	962.7	967.3	962.0
172.5°	973.4	970.3	970.3	975.6	970.3
175°	980.2	976.4	975.6	981.0	975.6
177.5°	983.2	979.4	979.4	984.8	978.7
180°	981.7	981.7	981.7	981.7	981.7

(END OF REPORT)