

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: P1025664

Luminaire Tested: S124DIP-B575D810UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025664
REPORT IS A COMBINATION OF REPORTS P996264 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D810UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

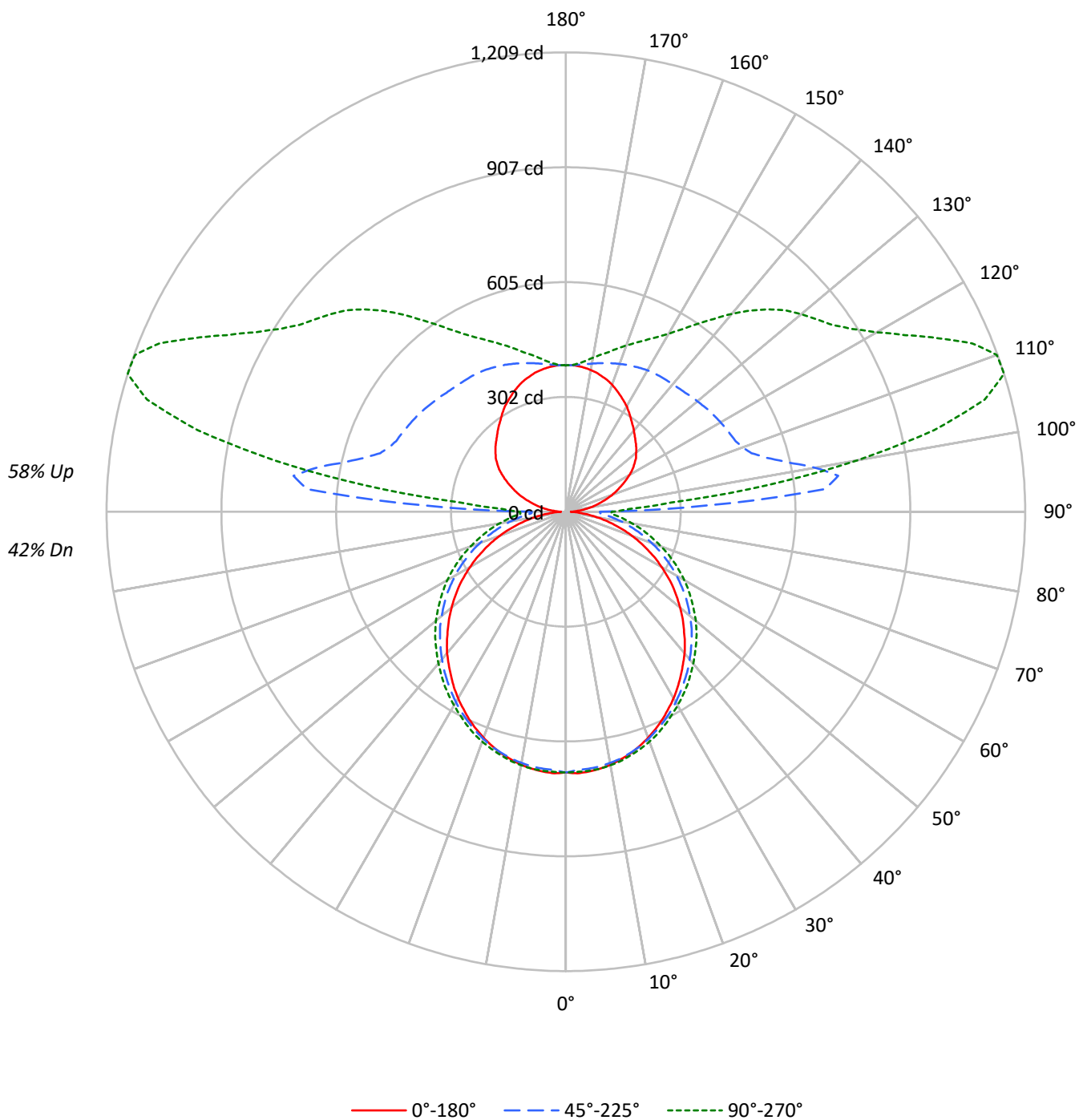
Lumens per Lamp: N/A
Luminaire Lumens: 5152.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	95	91	86	83	87	83	79	76	68	65	63	54	52	51	42	41	39
2	86	79	72	67	78	72	66	61	59	55	51	47	44	42	36	34	33
3	78	69	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27
4	72	61	52	46	65	55	48	43	46	40	36	37	33	30	28	26	23
5	66	54	45	39	59	49	42	37	41	35	31	33	29	25	25	22	20
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18
7	56	43	35	30	51	40	33	28	33	27	23	27	23	19	21	18	15
8	52	39	31	26	47	36	29	24	30	25	21	24	20	17	19	16	14
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	45	33	25	21	41	30	24	19	25	20	17	21	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5594	5594	5594
5°	5610	5448	5458
10°	5574	5341	5326
15°	5521	5220	5177
20°	5444	5090	5032
25°	5357	4946	4875
30°	5263	4804	4716
35°	5156	4658	4574
40°	5070	4518	4427
45°	4944	4387	4297
50°	4836	4238	4161
55°	4725	4094	4002
60°	4552	3915	3854
65°	4362	3723	3675
70°	4130	3502	3469
75°	3807	3256	3272
80°	3442	3008	3066
85°	2962	2757	2899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.3
10°-20°	186.2	3.6
20°-30°	281.6	5.5
30°-40°	340.7	6.6
40°-50°	360.2	7.0
50°-60°	339.0	6.6
60°-70°	281.3	5.5
70°-80°	197.4	3.8
80°-90°	112.8	2.2
90°-100°	352.5	6.8
100°-110°	631.2	12.3
110°-120°	551.8	10.7
120°-130°	454.4	8.8
130°-140°	371.8	7.2
140°-150°	279.4	5.4
150°-160°	195.3	3.8
160°-170°	114.8	2.2
170°-180°	37.3	0.7
0°-30°	532.8	10.3
0°-40°	873.5	17.0
0°-60°	1572.7	30.5
0°-90°	2164.1	42.0
90°-120°	1535.5	29.8
90°-150°	2641.1	51.3
90°-180°	2989.0	58.0
0°-180°	5152.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	687	684	679	685	684	65
15°	658	659	657	664	663	186
25°	602	607	609	618	618	277
35°	527	536	544	555	557	330
45°	439	454	469	482	486	340
55°	344	360	383	399	403	307
65°	238	263	289	308	314	236
75°	132	161	193	214	221	140
85°	41	73	108	131	138	42
90°	13	49	90	113	120	10
95°	35	114	684	393	279	35
105°	96	151	547	1139	1141	102
115°	161	207	479	904	1081	160
125°	220	260	462	760	857	197
135°	260	309	444	662	754	201
145°	298	341	434	547	604	187
155°	338	365	422	478	499	156
165°	369	380	405	429	435	104
175°	385	385	388	394	392	37
180°	385	385	385	385	385	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.0	686.0	686.0	686.0	686.0
2.5°	689.1	686.8	680.7	686.0	685.3
5°	686.8	684.5	679.1	685.3	684.5
7.5°	682.2	680.7	676.1	683.0	682.2
10°	676.1	675.3	671.4	678.4	677.6
12.5°	667.6	667.6	665.3	671.4	671.4
15°	658.4	659.2	656.8	663.8	663.0
17.5°	646.1	648.4	647.6	654.5	653.8
20°	633.0	635.3	636.1	643.8	643.8
22.5°	618.4	621.5	623.0	630.7	632.3
25°	602.3	606.9	609.2	617.7	618.4
27.5°	584.6	591.5	594.6	602.3	603.1
30°	567.0	573.1	578.5	586.9	588.5
32.5°	547.8	555.4	561.6	571.6	573.1
35°	527.0	536.2	543.9	554.7	557.0
37.5°	506.3	517.0	526.2	537.0	539.3
40°	486.3	496.3	507.0	518.6	521.6
42.5°	463.3	474.8	487.8	500.9	503.2
45°	439.4	454.0	468.6	481.7	485.5
47.5°	417.2	431.8	448.7	461.7	466.3
50°	392.6	409.5	426.4	441.7	446.4
52.5°	368.0	384.9	404.9	420.2	424.8
55°	344.2	360.3	383.4	398.7	403.3
57.5°	317.3	337.3	359.5	378.0	381.8
60°	291.2	311.1	336.5	354.2	360.3
62.5°	265.8	288.1	313.4	331.1	337.3
65°	238.2	262.7	288.9	308.1	314.2
67.5°	212.0	238.2	265.8	285.0	291.2
70°	185.1	211.3	240.5	261.2	266.6
72.5°	159.0	185.9	217.4	237.4	243.5
75°	132.1	160.6	192.8	214.3	221.3
77.5°	106.8	136.7	170.6	192.1	199.7
80°	83.7	114.5	148.3	171.3	177.5
82.5°	60.7	93.0	126.8	150.6	157.5
85°	40.7	73.0	107.6	130.6	138.3
87.5°	25.4	56.9	90.7	112.9	119.8
90°	13.1	49.1	89.7	113.4	120.4
92.5°	22.1	96.7	368.2	191.0	168.0
95°	35.0	114.0	683.8	393.0	279.2
97.5°	50.8	118.6	723.1	706.8	533.5
100°	66.0	126.8	667.1	942.1	778.7
102.5°	81.2	137.5	598.8	1087.4	992.9
105°	95.5	150.6	547.3	1139.2	1141.3
107.5°	112.9	165.0	512.5	1118.4	1209.2
110°	129.5	178.5	495.0	1053.2	1206.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.5	192.9	484.3	974.4	1157.7
115°	160.6	207.2	479.0	904.0	1081.2
117.5°	177.2	221.2	474.4	847.1	1006.9
120°	193.1	234.0	470.5	807.3	944.7
122.5°	208.2	247.2	466.0	780.3	894.7
125°	220.4	260.4	462.1	760.2	856.8
127.5°	232.5	274.1	456.8	740.1	831.8
130°	241.5	286.5	452.1	717.8	809.0
132.5°	251.4	297.9	448.4	691.9	784.7
135°	259.7	308.8	443.7	662.0	753.6
137.5°	268.7	317.7	440.6	630.9	717.9
140°	278.6	326.3	437.6	600.5	680.1
142.5°	288.5	334.3	436.1	572.8	639.8
145°	298.3	340.6	434.5	546.6	603.5
147.5°	309.7	347.5	432.3	524.3	569.3
150°	320.3	353.9	430.0	506.4	540.5
152.5°	329.3	360.0	426.2	492.1	517.8
155°	338.4	365.3	422.4	478.4	498.9
157.5°	347.5	370.2	418.6	465.6	481.5
160°	355.8	374.4	414.1	452.7	465.6
162.5°	363.4	377.8	409.6	440.2	450.4
165°	368.7	380.0	405.0	428.9	435.3
167.5°	374.7	381.9	400.5	419.0	423.2
170°	378.5	383.5	395.9	409.2	411.8
172.5°	382.3	384.6	391.4	400.4	400.5
175°	384.6	385.3	388.4	393.7	392.1
177.5°	386.1	385.3	386.1	388.8	386.1
180°	385.3	385.3	385.3	385.3	385.3

(END OF REPORT)