

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: P1025483

Luminaire Tested: S124DIP-B575D1035UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025483
REPORT IS A COMBINATION OF REPORTS P996023 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1035UB27-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

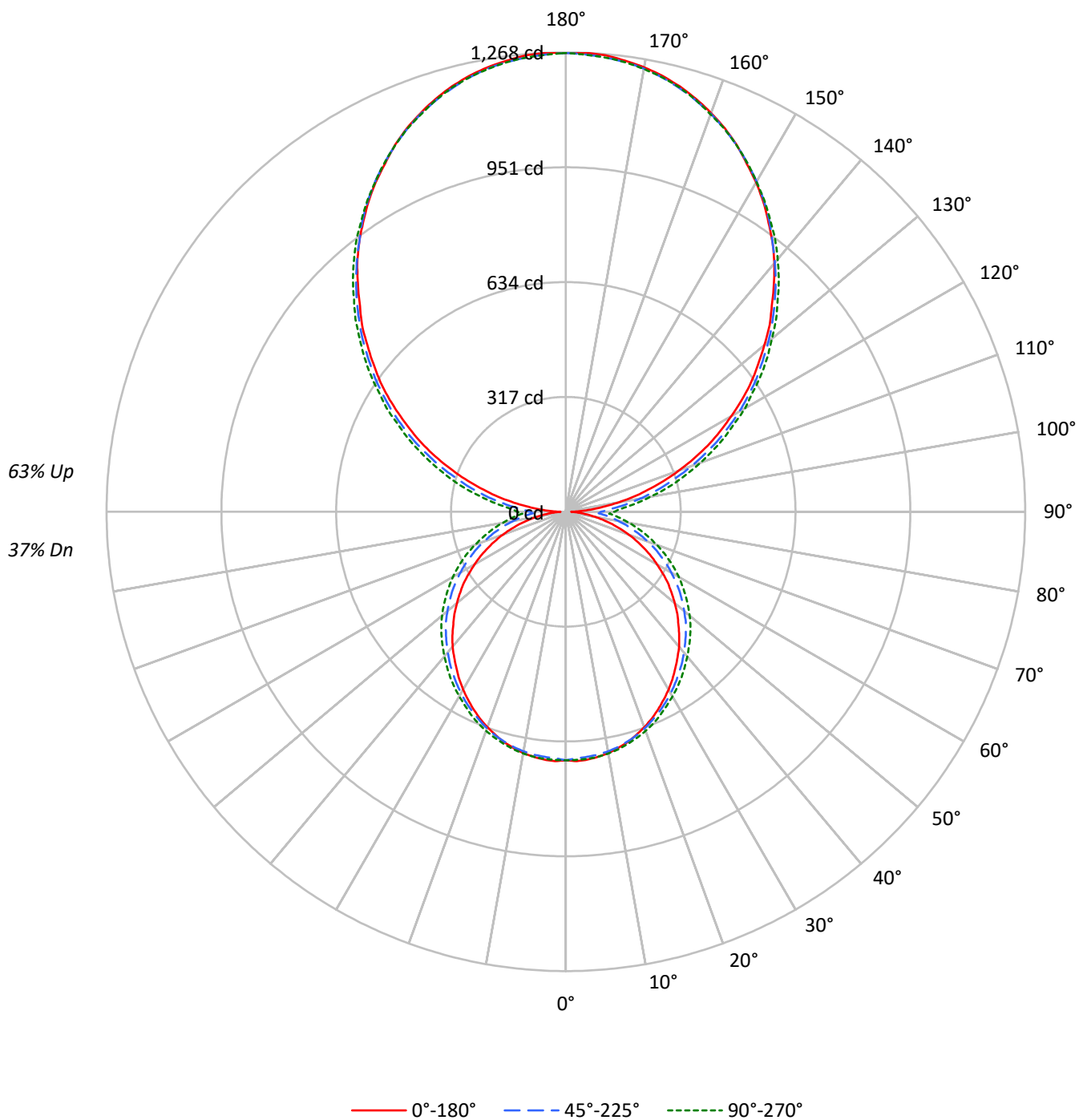
Lumens per Lamp: N/A
Luminaire Lumens: 5856.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37		
1	94	90	85	82	85	81	78	75	65	63	61	51	49	48	38	37	36	30		
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	29	24		
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25	20		
4	71	60	52	46	64	54	48	42	44	39	35	35	31	28	26	23	21	17		
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	15		
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16	13		
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14	11		
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	15	12	10		
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	16	13	11	9		
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10	8		

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: 90°

Luminance: 4958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.1
10°-20°	186.2	3.2
20°-30°	281.6	4.8
30°-40°	340.7	5.8
40°-50°	360.2	6.2
50°-60°	339.0	5.8
60°-70°	281.3	4.8
70°-80°	197.4	3.4
80°-90°	114.0	1.9
90°-100°	148.8	2.5
100°-110°	296.3	5.1
110°-120°	453.0	7.7
120°-130°	572.5	9.8
130°-140°	630.3	10.8
140°-150°	613.2	10.5
150°-160°	514.4	8.8
160°-170°	342.3	5.8
170°-180°	119.8	2.0
0°-30°	532.8	9.1
0°-40°	873.5	14.9
0°-60°	1572.7	26.9
0°-90°	2165.3	37.0
90°-120°	898.2	15.3
90°-150°	2714.1	46.3
90°-180°	3691.0	63.0
0°-180°	5856.0	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°	15	57	98	126	134	13
95°	69	103	141	165	172	72
105°	235	252	284	306	315	250
115°	432	439	461	477	482	426
125°	625	624	642	655	658	557
135°	804	810	815	825	827	622
145°	976	979	980	983	983	611
155°	1117	1117	1116	1120	1116	514
165°	1216	1213	1211	1217	1213	343
175°	1265	1260	1259	1266	1259	120
180°	1267	1267	1267	1267	1267	

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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°	15.2	56.7	97.7	125.7	133.9
92.5°	37.0	76.6	114.5	139.0	146.1
95°	68.8	102.9	141.2	165.0	171.9
97.5°	103.2	133.4	172.7	196.6	203.5
100°	145.6	169.5	208.3	230.9	236.3
102.5°	190.7	208.6	245.5	268.5	275.6
105°	235.1	251.5	283.8	306.0	315.1
107.5°	283.1	297.2	325.1	348.2	352.5
110°	331.3	344.1	370.0	385.7	394.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.6	390.8	414.1	431.1	437.2
115°	431.7	438.6	461.2	477.2	481.6
117.5°	479.7	484.3	506.4	519.6	522.7
120°	526.9	533.1	552.5	563.0	571.0
122.5°	576.8	577.8	597.6	610.0	610.5
125°	625.1	624.3	642.5	655.2	657.8
127.5°	669.2	671.3	684.8	696.6	701.0
130°	715.4	717.6	729.9	741.8	742.5
132.5°	763.4	764.6	772.9	783.9	787.6
135°	803.8	809.6	815.0	825.4	827.0
137.5°	849.8	852.0	857.0	865.7	870.4
140°	895.8	897.1	897.8	906.8	909.7
142.5°	937.3	939.2	937.4	945.9	948.9
145°	975.5	978.6	979.6	983.2	983.3
147.5°	1014.7	1018.7	1017.8	1017.6	1019.6
150°	1049.9	1053.0	1053.0	1053.0	1052.1
152.5°	1082.4	1084.4	1085.4	1088.3	1085.4
155°	1116.7	1116.7	1115.7	1119.6	1115.7
157.5°	1146.1	1144.1	1144.1	1147.1	1144.1
160°	1171.6	1170.6	1169.6	1172.5	1167.6
162.5°	1195.1	1192.1	1191.2	1197.0	1192.1
165°	1215.6	1212.7	1210.7	1216.6	1212.7
167.5°	1232.3	1228.4	1228.4	1234.3	1228.4
170°	1246.0	1241.1	1242.1	1248.0	1241.1
172.5°	1255.8	1251.9	1251.9	1258.7	1251.9
175°	1264.6	1259.7	1258.7	1265.6	1258.7
177.5°	1268.5	1263.6	1263.6	1270.5	1262.7
180°	1266.6	1266.6	1266.6	1266.6	1266.6

(END OF REPORT)