

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: P1008770

Luminaire Tested: S122DIP-B290D1080UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008770
REPORT IS A COMBINATION OF REPORTS P983822 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D1080UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

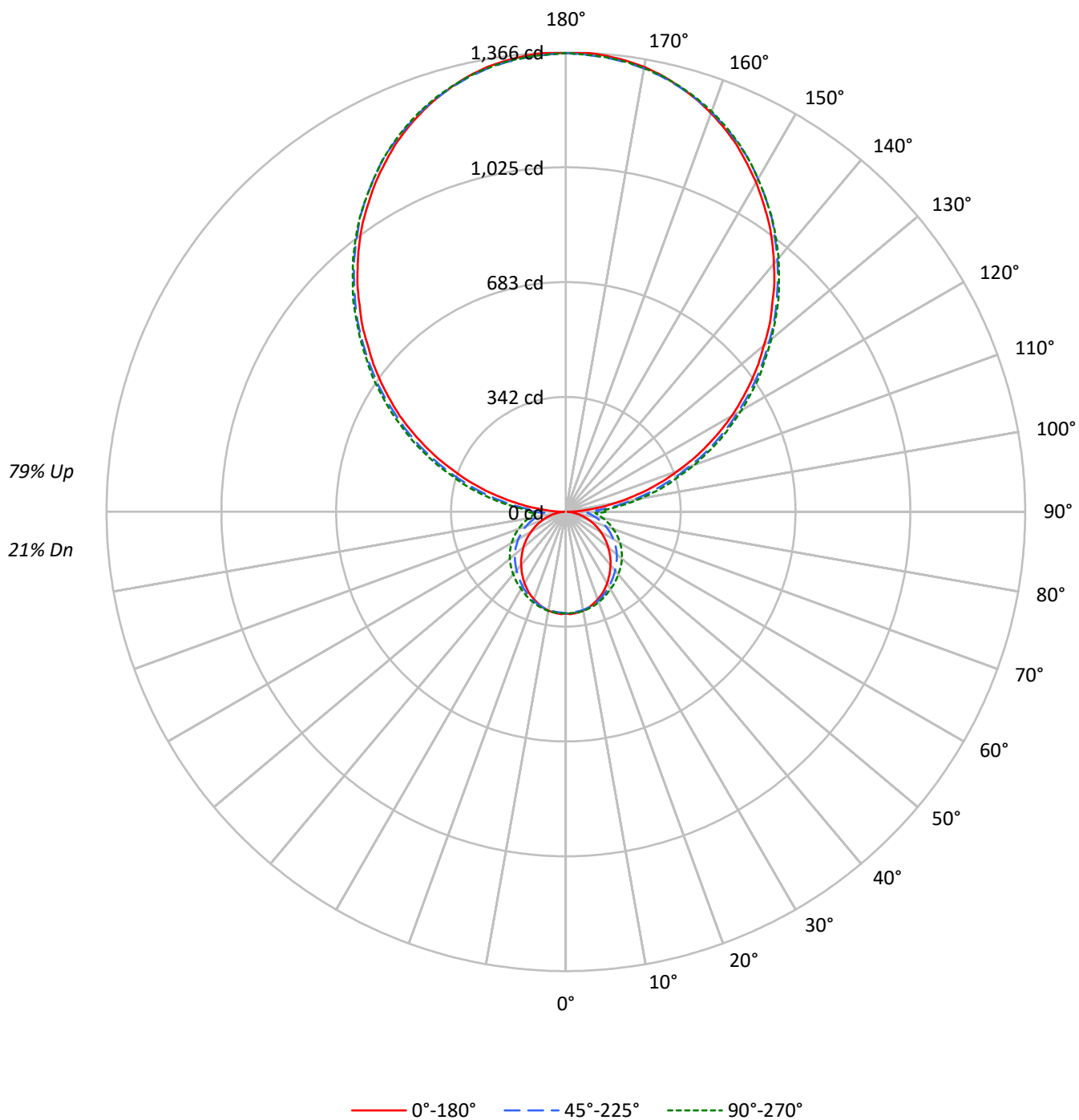
Lumens per Lamp: N/A
Luminaire Lumens: 4971.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21		
1	91	86	82	79	80	76	73	70	58	55	53	41	39	38	25	24	23	16		
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13		
3	75	65	58	53	66	58	52	47	44	40	36	31	28	26	19	17	16	11		
4	68	58	50	44	60	51	45	40	39	34	31	27	24	22	17	15	14	9		
5	62	51	43	37	55	45	39	34	34	30	26	24	21	19	15	13	12	8		
6	57	46	38	32	50	40	34	29	31	26	23	22	19	16	13	12	10	7		
7	53	41	33	28	46	36	30	25	28	23	20	20	17	14	12	10	9	6		
8	49	37	29	24	43	33	26	22	25	20	17	18	15	13	11	9	8	5		
9	45	33	26	21	40	30	24	19	23	18	15	16	13	11	10	8	7	5		
10	42	31	24	19	37	27	21	17	21	17	13	15	12	10	9	8	6	4		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.6
10°-20°	82.2	1.7
20°-30°	124.6	2.5
30°-40°	151.7	3.1
40°-50°	163.2	3.3
50°-60°	158.5	3.2
60°-70°	138.4	2.8
70°-80°	106.6	2.1
80°-90°	75.2	1.5
90°-100°	133.6	2.7
100°-110°	304.2	6.1
110°-120°	482.7	9.7
120°-130°	616.8	12.4
130°-140°	683.0	13.7
140°-150°	665.3	13.4
150°-160°	557.3	11.2
160°-170°	369.6	7.4
170°-180°	129.2	2.6
0°-30°	235.5	4.7
0°-40°	387.2	7.8
0°-60°	709.0	14.3
0°-90°	1029.2	20.7
90°-120°	920.5	18.5
90°-150°	2885.7	58.0
90°-180°	3942.0	79.3
0°-180°	4971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	6	45	98	113	120	7
95°	63	96	124	141	144	70
105°	250	266	291	308	313	264
115°	462	474	491	503	505	457
125°	671	681	692	700	703	600
135°	867	880	886	894	894	670
145°	1052	1060	1067	1071	1068	657
155°	1203	1206	1210	1215	1212	554
165°	1309	1308	1308	1316	1310	369
175°	1362	1358	1356	1364	1357	129
180°	1364	1364	1364	1364	1364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.6	44.8	98.2	113.4	119.8
92.5°	29.2	61.7	89.6	107.8	113.1
95°	63.3	95.5	124.1	140.8	143.7
97.5°	103.2	132.4	162.4	178.7	183.9
100°	149.3	174.7	202.6	218.8	222.6
102.5°	197.1	218.5	246.8	263.7	267.4
105°	249.7	265.8	290.9	308.5	313.4
107.5°	302.6	317.7	339.6	355.7	354.8
110°	352.8	368.4	389.9	403.9	405.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	408.1	422.0	440.9	451.6	454.1
115°	462.2	473.9	491.3	503.2	504.7
117.5°	515.8	528.5	541.1	550.9	551.8
120°	569.9	580.9	589.2	601.5	602.8
122.5°	619.4	631.4	641.8	650.2	651.9
125°	670.7	681.1	691.7	700.0	702.9
127.5°	721.4	733.6	740.8	747.1	747.7
130°	768.6	783.0	789.9	798.2	797.1
132.5°	821.5	832.5	840.3	844.6	844.7
135°	867.1	879.7	886.4	894.5	894.5
137.5°	917.7	928.1	932.6	939.8	938.2
140°	962.6	972.5	979.2	986.2	984.2
142.5°	1008.6	1018.6	1022.0	1028.5	1026.1
145°	1052.0	1060.0	1066.9	1070.7	1068.3
147.5°	1091.1	1101.5	1106.1	1108.8	1105.6
150°	1131.4	1138.3	1142.9	1146.3	1142.9
152.5°	1167.1	1174.0	1179.7	1184.3	1179.7
155°	1202.7	1206.2	1209.6	1215.4	1211.9
157.5°	1233.8	1236.1	1238.4	1246.5	1240.7
160°	1261.4	1263.7	1264.9	1271.8	1267.2
162.5°	1286.8	1286.8	1287.9	1296.0	1290.2
165°	1308.6	1307.5	1307.5	1315.5	1309.8
167.5°	1328.2	1324.7	1324.7	1332.8	1327.0
170°	1343.2	1339.7	1338.5	1346.6	1339.7
172.5°	1353.5	1350.1	1348.9	1357.0	1350.1
175°	1361.6	1358.1	1355.8	1363.9	1357.0
177.5°	1366.2	1362.7	1360.4	1367.3	1360.4
180°	1363.9	1363.9	1363.9	1363.9	1363.9

(END OF REPORT)