

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: P1008774

Luminaire Tested: S122DIP-B290D1080UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008774
REPORT IS A COMBINATION OF REPORTS P983826 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D1080UB27-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

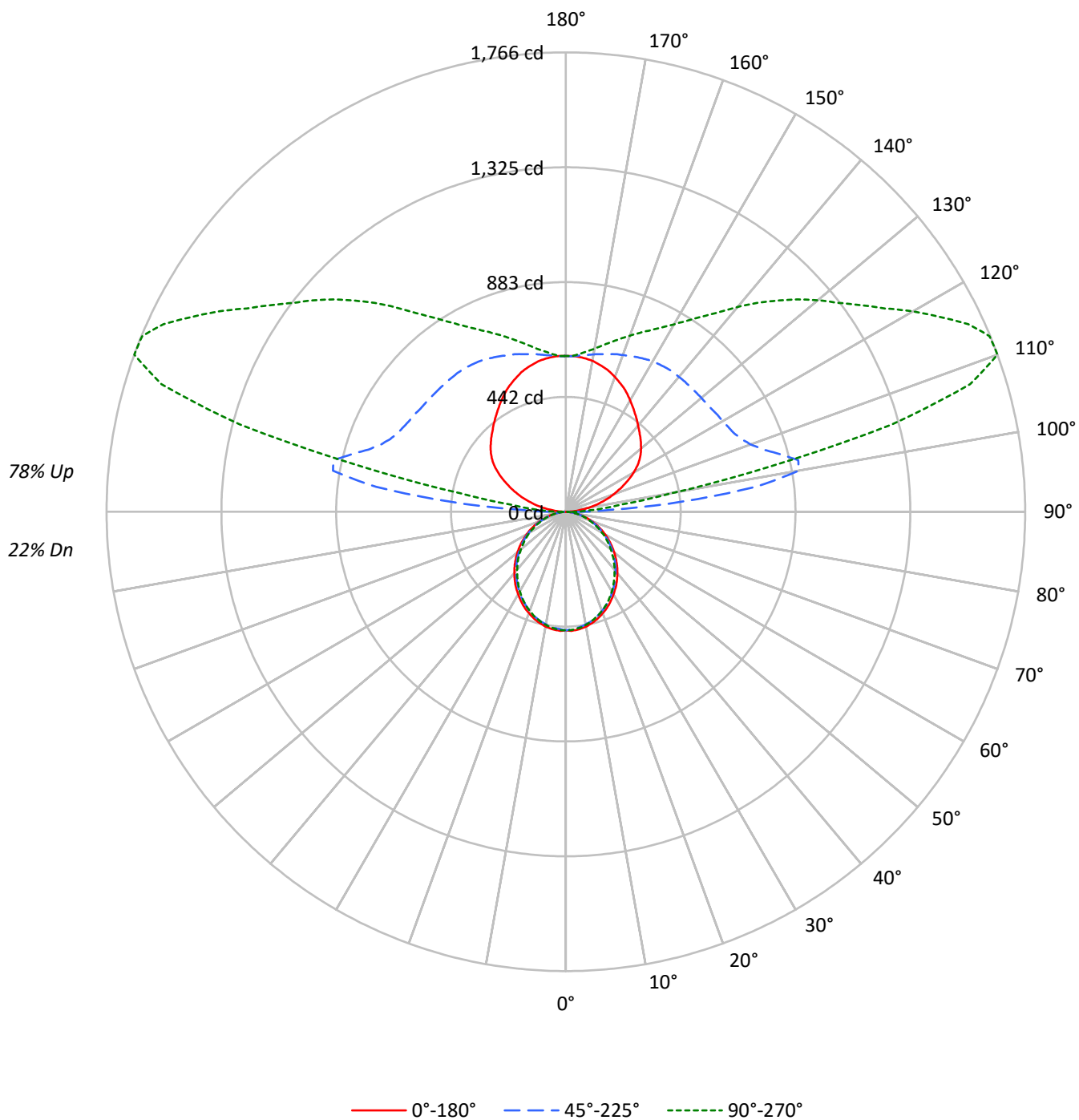
Lumens per Lamp: N/A
Luminaire Lumens: 5336.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					10
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	68	68	68	48	48	48	30	30	30	30	30	22
1	91	87	84	80	81	77	74	72	59	57	55	42	41	40	27	26	25	25	25	18
2	83	76	70	65	73	68	63	59	52	48	46	37	35	33	23	22	21	21	21	15
3	76	67	60	54	67	59	54	49	46	42	38	33	30	28	21	19	18	18	18	13
4	69	59	52	46	61	53	46	41	40	36	33	29	26	24	19	17	16	16	16	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	17	15	14	14	14	10
6	58	47	39	34	51	42	35	30	32	28	24	23	20	18	15	13	12	12	12	9
7	54	42	35	29	47	38	31	26	29	24	21	21	18	16	14	12	11	11	11	8
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	13	11	9	9	9	7
9	46	35	27	23	41	31	25	21	24	20	16	18	15	12	12	10	8	8	8	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8	8	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.8
10°-20°	120.7	2.3
20°-30°	177.4	3.3
30°-40°	206.1	3.9
40°-50°	205.8	3.9
50°-60°	179.5	3.4
60°-70°	132.7	2.5
70°-80°	75.1	1.4
80°-90°	23.6	0.4
90°-100°	242.6	4.5
100°-110°	820.3	15.4
110°-120°	862.2	16.2
120°-130°	709.0	13.3
130°-140°	569.7	10.7
140°-150°	430.4	8.1
150°-160°	302.6	5.7
160°-170°	178.2	3.3
170°-180°	58.0	1.1
0°-30°	341.1	6.4
0°-40°	547.2	10.3
0°-60°	932.5	17.5
0°-90°	1163.8	21.8
90°-120°	1925.1	36.1
90°-150°	3634.3	68.1
90°-180°	4173.0	78.2
0°-180°	5336.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	16	39	37	38	4
95°	40	99	451	170	131	42
105°	140	212	853	1524	1297	149
115°	248	312	714	1473	1707	245
125°	345	409	686	1193	1385	307
135°	405	483	678	1003	1148	313
145°	463	532	674	837	916	290
155°	526	568	655	741	770	242
165°	573	590	627	665	676	162
175°	597	598	603	611	609	57
180°	598	598	598	598	598	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
90°	1.2	15.6	39.1	37.4	38.0
92.5°	17.3	54.6	177.3	81.7	70.2
95°	40.3	99.0	451.2	170.4	131.2
97.5°	59.9	130.6	735.5	341.8	219.8
100°	88.6	160.0	909.3	680.8	412.1
102.5°	115.1	186.4	915.1	1151.0	803.4
105°	140.4	211.8	852.9	1524.5	1297.2
107.5°	168.0	237.1	795.3	1659.8	1629.8
110°	195.7	263.0	756.2	1637.9	1765.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.0	287.8	730.9	1563.6	1763.4
115°	247.5	312.5	713.6	1472.7	1707.0
117.5°	275.1	337.2	704.4	1385.8	1621.8
120°	300.4	361.4	696.4	1308.2	1540.1
122.5°	324.6	386.2	691.8	1247.7	1454.9
125°	345.3	408.6	686.0	1193.1	1384.7
127.5°	362.6	429.9	682.6	1146.4	1319.1
130°	377.5	448.9	680.2	1099.2	1265.0
132.5°	391.3	467.3	679.1	1050.3	1208.6
135°	405.2	483.4	677.9	1002.6	1147.6
137.5°	417.8	497.2	677.9	954.2	1088.9
140°	432.8	509.9	676.8	911.6	1027.9
142.5°	447.7	520.2	676.8	870.8	966.9
145°	462.7	531.8	674.5	837.4	916.2
147.5°	478.8	541.0	671.0	808.0	871.3
150°	494.9	550.2	667.6	782.6	832.2
152.5°	511.0	559.4	661.8	761.4	798.8
155°	526.0	568.0	654.9	740.6	770.0
157.5°	538.7	574.9	648.0	721.1	744.7
160°	551.3	581.8	641.1	701.6	720.5
162.5°	564.0	587.0	635.4	683.1	697.5
165°	573.2	590.4	627.3	665.3	675.6
167.5°	581.3	593.9	620.4	649.2	654.9
170°	589.3	595.6	614.6	634.2	636.5
172.5°	593.9	597.4	607.7	621.0	621.5
175°	597.4	598.0	603.1	610.6	608.9
177.5°	599.7	598.5	598.5	603.1	599.7
180°	598.5	598.5	598.5	598.5	598.5

(END OF REPORT)