

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: P1009487

Luminaire Tested: S122DIP-B865D330UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009487
REPORT IS A COMBINATION OF REPORTS P984806 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

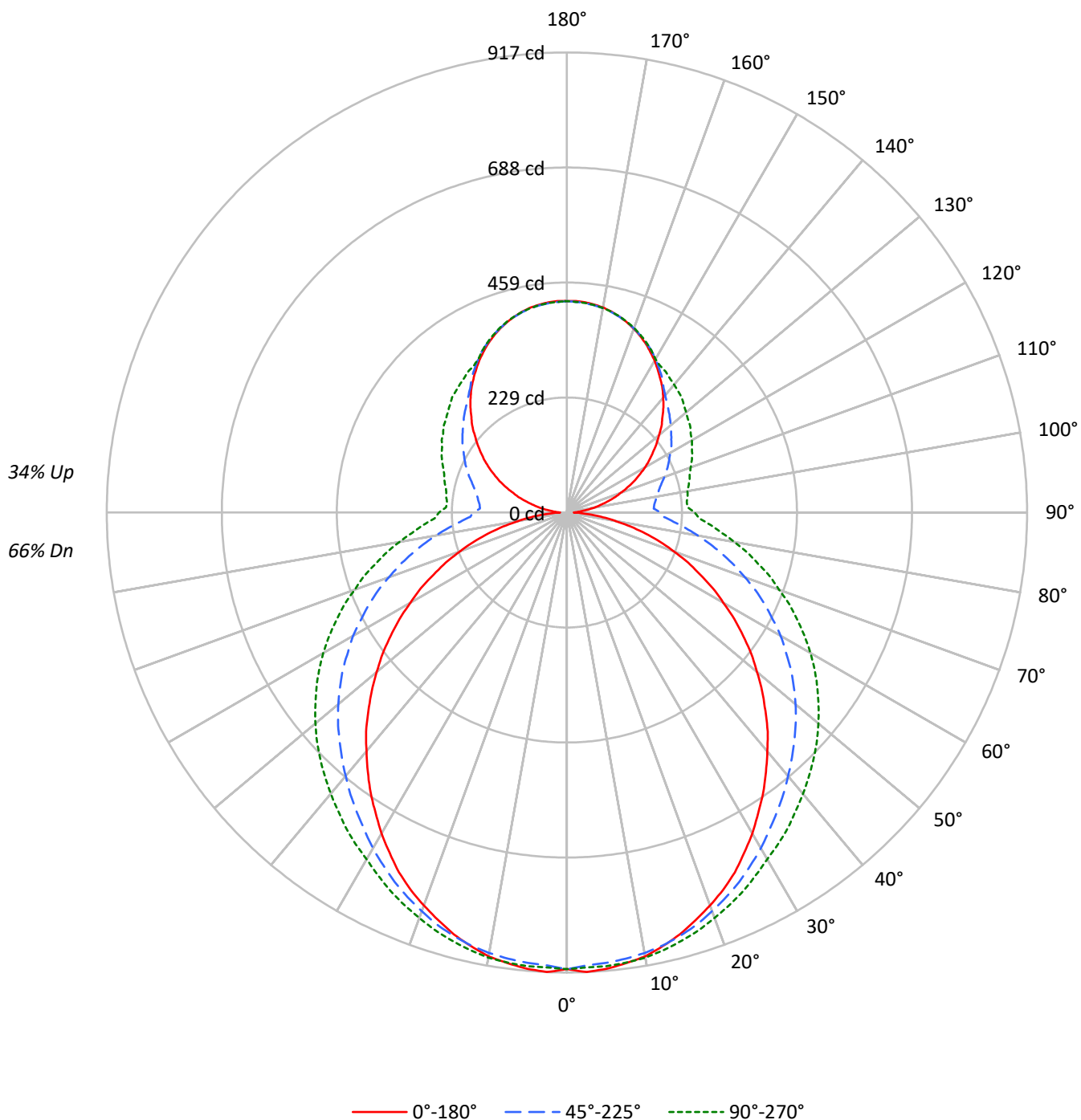
Lumens per Lamp: N/A
Luminaire Lumens: 4652.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71			66
1	99	94	89	85	93	89	84	81	78	75	72	69	66	64	60	58	56			52
2	90	81	74	68	84	76	70	65	67	62	58	59	55	52	51	48	46			42
3	81	71	62	56	76	67	59	53	59	53	48	52	47	43	45	41	38			34
4	74	62	53	47	69	59	51	45	52	45	40	46	40	36	40	36	32			29
5	68	55	46	40	64	52	44	38	46	40	35	41	35	31	36	31	28			25
6	63	49	41	34	59	47	39	33	42	35	30	37	31	27	32	28	24			22
7	58	45	36	30	54	42	34	29	38	31	26	33	28	24	29	25	21			19
8	54	41	32	26	50	38	31	25	34	28	23	31	25	21	27	22	19			17
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	25	20	17			15
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16			14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.9
10°-20°	247.5	5.3
20°-30°	375.0	8.1
30°-40°	456.6	9.8
40°-50°	491.3	10.6
50°-60°	477.1	10.3
60°-70°	416.7	9.0
70°-80°	320.7	6.9
80°-90°	216.0	4.6
90°-100°	174.3	3.7
100°-110°	191.1	4.1
110°-120°	213.2	4.6
120°-130°	226.2	4.9
130°-140°	226.0	4.9
140°-150°	208.0	4.5
150°-160°	172.1	3.7
160°-170°	114.2	2.5
170°-180°	39.9	0.9
0°-30°	708.7	15.2
0°-40°	1165.3	25.1
0°-60°	2133.7	45.9
0°-90°	3087.0	66.4
90°-120°	578.5	12.4
90°-150°	1238.8	26.6
90°-180°	1565.0	33.6
0°-180°	4652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	94	186	239	255	10
95°	29	95	174	225	240	29
105°	83	122	192	238	253	88
115°	148	164	223	262	275	145
125°	210	213	254	288	300	188
135°	269	273	287	314	324	208
145°	325	327	330	338	343	203
155°	372	373	374	375	374	171
165°	404	404	404	406	405	114
175°	421	420	419	421	419	40
180°	421	421	421	421	421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	13.6	94.3	186.5	238.6	254.8
92.5°	19.7	92.5	173.3	225.1	240.9
95°	29.1	94.6	174.5	224.6	239.7
97.5°	40.1	100.1	178.1	226.9	242.7
100°	54.3	106.0	181.0	229.8	243.9
102.5°	68.0	113.6	186.3	234.2	248.3
105°	83.0	122.4	191.6	238.5	253.0
107.5°	99.4	132.5	198.4	243.7	256.4
110°	113.7	142.3	206.9	249.1	262.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.8	154.0	214.4	255.5	269.3
115°	147.5	164.1	222.7	262.0	275.4
117.5°	162.9	176.3	229.9	268.4	280.5
120°	179.6	187.7	237.6	274.5	288.0
122.5°	194.9	199.8	246.8	281.3	292.5
125°	209.5	212.7	253.9	288.5	299.9
127.5°	225.1	227.8	261.9	293.5	304.3
130°	239.7	243.0	270.0	301.0	310.1
132.5°	256.1	258.3	278.5	307.0	316.5
135°	269.0	272.9	286.8	314.2	323.7
137.5°	284.6	287.8	295.1	319.9	327.7
140°	298.5	300.4	304.8	325.9	332.5
142.5°	312.7	314.6	315.7	331.8	337.0
145°	324.9	327.4	329.6	337.8	343.0
147.5°	337.0	340.2	341.6	343.7	346.2
150°	349.5	351.6	353.0	354.1	353.0
152.5°	360.5	362.6	364.4	365.8	364.4
155°	371.5	372.6	373.6	375.4	374.3
157.5°	381.1	381.8	382.5	385.0	383.2
160°	389.6	390.3	390.7	392.8	391.4
162.5°	397.5	397.5	397.8	400.3	398.5
165°	404.2	403.9	403.9	406.3	404.6
167.5°	410.3	409.2	409.2	411.7	409.9
170°	414.9	413.8	413.5	415.9	413.8
172.5°	418.1	417.0	416.7	419.1	417.0
175°	420.6	419.5	418.8	421.3	419.1
177.5°	422.0	420.9	420.2	422.3	420.2
180°	421.3	421.3	421.3	421.3	421.3

(END OF REPORT)