

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: P1031536

Luminaire Tested: S123DIW-B1165D755UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031536
REPORT IS A COMBINATION OF REPORTS P991155 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D755UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

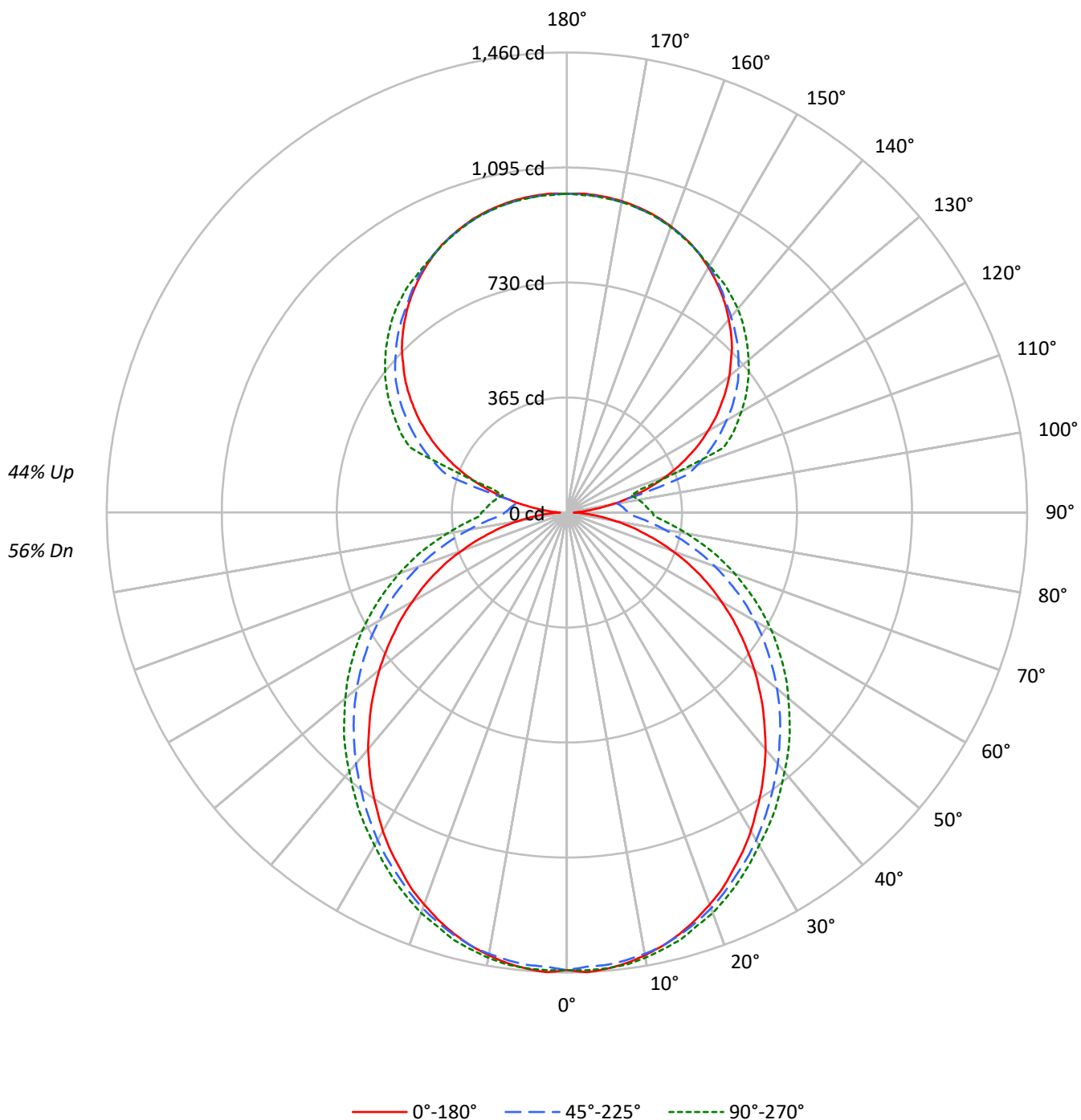
Lumens per Lamp: N/A
Luminaire Lumens: 7968.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	89	85	91	87	83	79	74	71	69	63	61	59	53	51	50
2	89	81	74	68	82	75	69	64	64	60	56	55	51	48	46	43	41
3	81	71	63	56	75	66	59	53	56	51	47	48	44	40	40	37	34
4	74	62	54	47	68	58	50	45	50	44	39	43	38	34	36	32	29
5	68	55	47	40	62	52	44	38	45	39	34	38	33	30	32	28	25
6	62	50	41	35	57	46	39	33	40	34	29	34	30	26	29	25	22
7	57	45	36	31	53	42	34	29	36	30	26	31	26	23	26	23	20
8	53	41	32	27	49	38	31	26	33	27	23	29	24	20	24	20	18
9	50	37	29	24	46	35	28	23	30	25	20	26	22	18	22	19	16
10	46	34	26	22	43	32	25	20	28	22	18	24	20	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15632	15632	15632
5°	15675	15174	15162
10°	15529	14763	14650
15°	15323	14310	14108
20°	15032	13803	13526
25°	14672	13234	12922
30°	14306	12718	12317
35°	13893	12177	11822
40°	13500	11682	11301
45°	13063	11204	10872
50°	12632	10728	10406
55°	12154	10242	9976
60°	11687	9744	9537
65°	11204	9214	9022
70°	10484	8617	8492
75°	9567	7939	7945
80°	8502	7252	7320
85°	7444	6697	6873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.7
10°-20°	392.8	4.9
20°-30°	587.3	7.4
30°-40°	701.2	8.8
40°-50°	733.7	9.2
50°-60°	688.5	8.6
60°-70°	575.1	7.2
70°-80°	411.2	5.2
80°-90°	246.7	3.1
90°-100°	189.4	2.4
100°-110°	285.6	3.6
110°-120°	498.3	6.3
120°-130°	579.8	7.3
130°-140°	592.7	7.4
140°-150°	540.2	6.8
150°-160°	432.5	5.4
160°-170°	279.1	3.5
170°-180°	96.2	1.2
0°-30°	1117.9	14.0
0°-40°	1819.1	22.8
0°-60°	3241.3	40.7
0°-90°	4474.4	56.2
90°-120°	973.3	12.2
90°-150°	2685.9	33.7
90°-180°	3494.0	43.9
0°-180°	7968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1454	1451	1441	1454	1452	138
15°	1384	1389	1388	1403	1402	390
25°	1250	1266	1270	1291	1291	576
35°	1076	1101	1122	1145	1152	673
45°	880	918	957	987	1000	678
55°	671	723	780	823	835	601
65°	464	525	595	642	658	458
75°	252	326	405	457	476	269
85°	78	157	240	294	310	80
90°	21	106	197	254	271	17
95°	63	94	180	234	250	68
105°	237	283	283	195	210	250
115°	428	452	515	561	577	423
125°	597	603	652	687	699	534
135°	741	744	764	795	800	570
145°	853	856	858	872	878	533
155°	938	936	937	940	936	432
165°	989	986	986	992	986	279
175°	1012	1008	1009	1014	1008	96
180°	1012	1012	1012	1012	1012	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.3	1452.3	1452.3	1452.3	1452.3
2.5°	1460.3	1455.5	1442.8	1455.5	1453.9
5°	1453.9	1450.8	1441.3	1453.9	1452.3
7.5°	1442.8	1442.8	1433.4	1449.2	1447.6
10°	1427.0	1430.2	1422.3	1438.1	1434.9
12.5°	1408.0	1412.8	1408.0	1422.3	1419.1
15°	1384.3	1389.1	1387.5	1403.3	1401.7
17.5°	1355.8	1365.3	1363.7	1378.0	1374.8
20°	1324.2	1333.7	1336.8	1351.1	1352.7
22.5°	1291.0	1300.5	1305.2	1324.2	1322.6
25°	1249.8	1265.7	1270.4	1291.0	1291.0
27.5°	1210.3	1227.7	1237.2	1254.6	1256.2
30°	1167.6	1188.1	1200.8	1219.8	1219.8
32.5°	1120.1	1143.8	1161.2	1181.8	1186.6
35°	1075.8	1101.1	1121.7	1145.4	1151.7
37.5°	1028.3	1056.8	1080.6	1107.4	1112.2
40°	980.9	1009.4	1041.0	1067.9	1074.2
42.5°	928.7	965.1	998.3	1028.3	1037.8
45°	879.6	917.6	957.2	987.2	999.9
47.5°	827.4	870.1	914.4	947.7	957.2
50°	776.8	821.1	870.1	906.5	917.6
52.5°	723.0	770.5	825.8	863.8	878.0
55°	670.8	723.0	780.0	822.7	835.3
57.5°	620.2	674.0	735.7	778.4	792.6
60°	566.4	623.3	688.2	732.5	749.9
62.5°	515.8	574.3	643.9	688.2	704.0
65°	463.5	525.2	594.9	642.3	658.1
67.5°	411.3	476.2	545.8	598.0	610.7
70°	356.0	424.0	499.9	550.6	566.4
72.5°	305.3	373.4	452.5	504.7	520.5
75°	251.5	325.9	405.0	457.2	476.2
77.5°	205.7	280.0	359.1	414.5	428.7
80°	156.6	234.1	316.4	370.2	386.0
82.5°	113.9	193.0	276.9	330.7	346.5
85°	77.5	156.6	240.5	294.3	310.1
87.5°	47.5	126.6	207.3	261.0	276.9
90°	21.4	106.4	196.8	253.7	271.0
92.5°	36.3	99.8	185.6	243.1	258.2
95°	63.3	94.1	179.9	234.3	250.1
97.5°	99.3	135.2	171.2	224.7	241.2
100°	141.3	207.0	162.4	214.3	230.9
102.5°	189.4	243.4	183.7	203.2	220.6
105°	236.7	282.9	283.3	194.6	210.3
107.5°	285.5	325.5	401.7	328.6	244.3
110°	334.3	368.8	440.4	456.7	361.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.4	409.8	478.2	524.5	537.3
115°	428.2	451.7	515.3	560.9	576.6
117.5°	474.8	492.7	550.3	594.2	607.7
120°	516.0	530.7	585.1	627.6	638.7
122.5°	559.6	568.1	620.1	658.7	670.5
125°	597.1	603.1	652.0	686.8	699.4
127.5°	636.2	640.7	684.0	718.0	727.4
130°	672.3	676.8	711.4	744.5	752.5
132.5°	705.4	711.4	737.4	768.9	777.6
135°	740.7	743.6	764.0	794.8	800.4
137.5°	770.8	775.2	787.8	816.9	823.3
140°	799.3	803.8	810.7	837.5	843.9
142.5°	827.1	830.0	832.3	855.1	860.8
145°	852.7	856.3	857.8	872.0	878.3
147.5°	875.9	879.6	881.1	887.3	890.0
150°	898.4	900.7	902.2	903.7	904.6
152.5°	918.7	919.5	920.2	923.2	919.5
155°	937.5	936.0	936.8	940.5	936.0
157.5°	952.5	952.5	951.8	956.3	950.3
160°	966.1	965.3	964.6	969.1	963.8
162.5°	978.9	976.6	975.9	981.1	976.6
165°	988.6	986.4	985.6	991.6	986.4
167.5°	996.9	993.9	993.9	999.9	993.9
170°	1003.7	1000.7	1000.7	1006.7	1000.7
172.5°	1008.2	1004.4	1005.2	1011.2	1004.4
175°	1011.9	1008.2	1008.9	1014.2	1008.2
177.5°	1013.4	1009.7	1010.4	1016.4	1008.9
180°	1011.9	1011.9	1011.9	1011.9	1011.9

(END OF REPORT)